

HYDROLOGIC DATA FOR SELECTED STREAMS IN THE COAL AREA OF SOUTHEASTERN OKLAHOMA, JULY 1978 TO SEPTEMBER 1982

By Stephen P. Blumer and Lee Ann Alf

U.S. GEOLOGICAL SURVEY

Open-File Report 86-319



**Oklahoma City, Oklahoma
1987**

DEPARTMENT OF THE INTERIOR
DONALD PAUL HODEL, Secretary
U.S. GEOLOGICAL SURVEY
Dallas L. Peck, Director

For additional information
write to:

District Chief
U.S. Geological Survey
Water Resources Division
215 Dean A. McGee, Room 621
Oklahoma City, OK 73102

Copies of this report can
be purchased from:

U.S. Geological Survey
Books and Open-File Reports Section
Federal Center, Bldg. 41
Box 25425
Denver, CO 80225

CONTENTS

Abstract.....	Page 1
Introduction.....	2
Study area.....	2
Data collection.....	8
References.....	9

ILLUSTRATIONS

Figure 1. Map showing location of study area and coal resources in southeastern Oklahoma.....	3
2. Map showing location of stream data-collection site in Atoka County.....	4
3. Map showing location of stream data-collection sites in Latimer County.....	5
4. Map showing location of stream data-collection sites in Le Flore County.....	6
5. Map showing location of stream data-collection sites in Pittsburg County.....	7

TABLES

Table 1. Descriptions of sampling sites.....	10
2. Mean daily stream discharge, in cubic feet per second, at selected sites.....	13
3. Physical properties, selected field constituents, and concentration of suspended sediment of water at selected sites.....	61
4. Concentration of selected common constituents, nutrients, and trace elements of water at selected sites.....	107
5. Mean daily specific conductance, in microsiemens per centimeter at 25 degrees Celsius of water at selected sites..	289
6. Mean daily pH, in standard units, of water at selected sites..	295
7. Mean daily water temperature, in degrees Celsius, at selected sites.....	301
8. Mean daily dissolved oxygen, in milligrams per liter, of water at selected sites.....	307
9. Biological data of water at selected sites.....	314

CONVERSION FACTORS

For the convenience of readers who may want to use the International System of Units (SI), conversion factors for terms used in this report are listed below:

<u>Multiply</u>	<u>By</u>	<u>To obtain the SI units</u>
foot (ft)	0.3048	meters (m)
cubic foot per second (ft ³ /s)	0.02832	cubic meters per second (m ³ /s)
inches (in.)	25.40	millimeters (mm)
miles (mi)	1.609	kilometers (km)
square miles (mi ²)	2.590	square kilometers (km ²)

<u>Temperature</u>		
degrees Fahrenheit (°F)	°C=5/9 (°F-32)	degrees Celsius (°C)

<u>Specific Conductance</u>		
microsiemens per centimeter (μS/cm) at 25 °C	1.000	micromhos per centimeter (μmhos/cm) at 25 °C

HYDROLOGIC DATA FOR SELECTED STREAMS IN THE COAL AREA OF
SOUTHEASTERN OKLAHOMA, JULY 1978 TO SEPTEMBER 1982

By Stephen P. Blumer and Lee Ann Alf

ABSTRACT

Hydrologic data on quantity and quality of surface waters were collected in the coal resource area of southeastern Oklahoma during an investigation of the effects of coal surface mining on the hydrology of the area. The objective of the study was to determine the characteristics of the regional hydrologic system and to detect and document changes in the system that may occur as the result of coal surface mining. This report presents data which were collected at 13 sites in 4 counties between July 1978 and September 1982.

The data include: (1) mean daily stream discharge; (2) physical properties, selected field constituents, and concentration of suspended sediment of water samples; (3) concentration of selected common constituents, nutrients, and trace elements of water samples; (4) mean daily specific conductance, pH, water temperature, and dissolved oxygen; and (5) analyses of biological samples.

INTRODUCTION

The Surface Mining Control and Reclamation Act, Public Law 95-87, was enacted in 1977 and created an immediate need for extensive information about the probable hydrologic consequences of mining and reclamation. Under Section 507 (b) (11) of the Act, an appropriate Federal or State agency must provide water-quality and hydrologic information on the "general area" to applicants for coal-mining permits, so that applicants can assess the probable effects of the proposed mining. Regulatory authorities also need hydrologic data to determine the probable cumulative impacts of all anticipated mining on the hydrologic system.

To help meet the goals of the Act, the U.S. Geological Survey collected hydrologic data on the quantity and quality of streams in the southeastern Oklahoma coal resource area (fig. 1). The purpose of this report is to provide a compilation of data collected between July 1978 and September 1982. All of the data are stored in the U.S. Geological Survey National Water Data Storage and Retrieval System (WATSTORE).

STUDY AREA

Most of the Federal coal ownership in Oklahoma is in the southeast part of the State. The Geological Survey stream data collection was concentrated in Latimer, Le Flore, and Pittsburg Counties (fig. 1). Hydrologic data were collected from streams with drainage areas ranging from 4.39 mi² to 445 mi² representing various combinations of land use and vegetation cover. Although surface mining was conducted in most of the area, only three study basins had a history of prior coal mining activity. The number of sites in each county are: Atoka, 1 (fig. 2); Latimer, 2 (fig. 3); Le Flore, 6 (fig. 4); and Pittsburg, 4 (fig. 5). Descriptions of all data-collection sites are given in table 1.

The principal areas of Federal coal and streams studied in this project are in the McAlester marginal hills geomorphic province (Johnson and others, 1972). In this province, the rocks have been folded to form northeast- or east-trending synclines and anticlines. The landscape is characterized by irregular hill and ridges generally capped by erosion-resistant sandstone; vegetation consists of trees and shrubs. The intervening valleys have been formed by weathering of thick, easily eroded shale; vegetation consists of shrubs and grasses. The primary land use of valley areas where coal is most easily accessible is pasture.

The climate of the area consists of hot and humid summers, and generally cool and mild winters, with little snow. Annual precipitation increases from 42 to 48 in. in a southeasterly direction across the study area, with heaviest accumulations in April through June. Thunderstorms are dominant in spring through summer with frontal precipitation more common in late fall to early spring. Mean annual runoff varies from 10 in. in the southwest to nearly 20 in. along the eastern edge of the study area. Southerly winds prevail during the summer, supplying moisture from the Gulf of Mexico. Wintertime weather can alternate between southerly humid and drier polar air masses. The mean daily air temperature for July is about 28 °C, whereas in January it is about 2 °C. Annual lake evaporation is about 55 in.

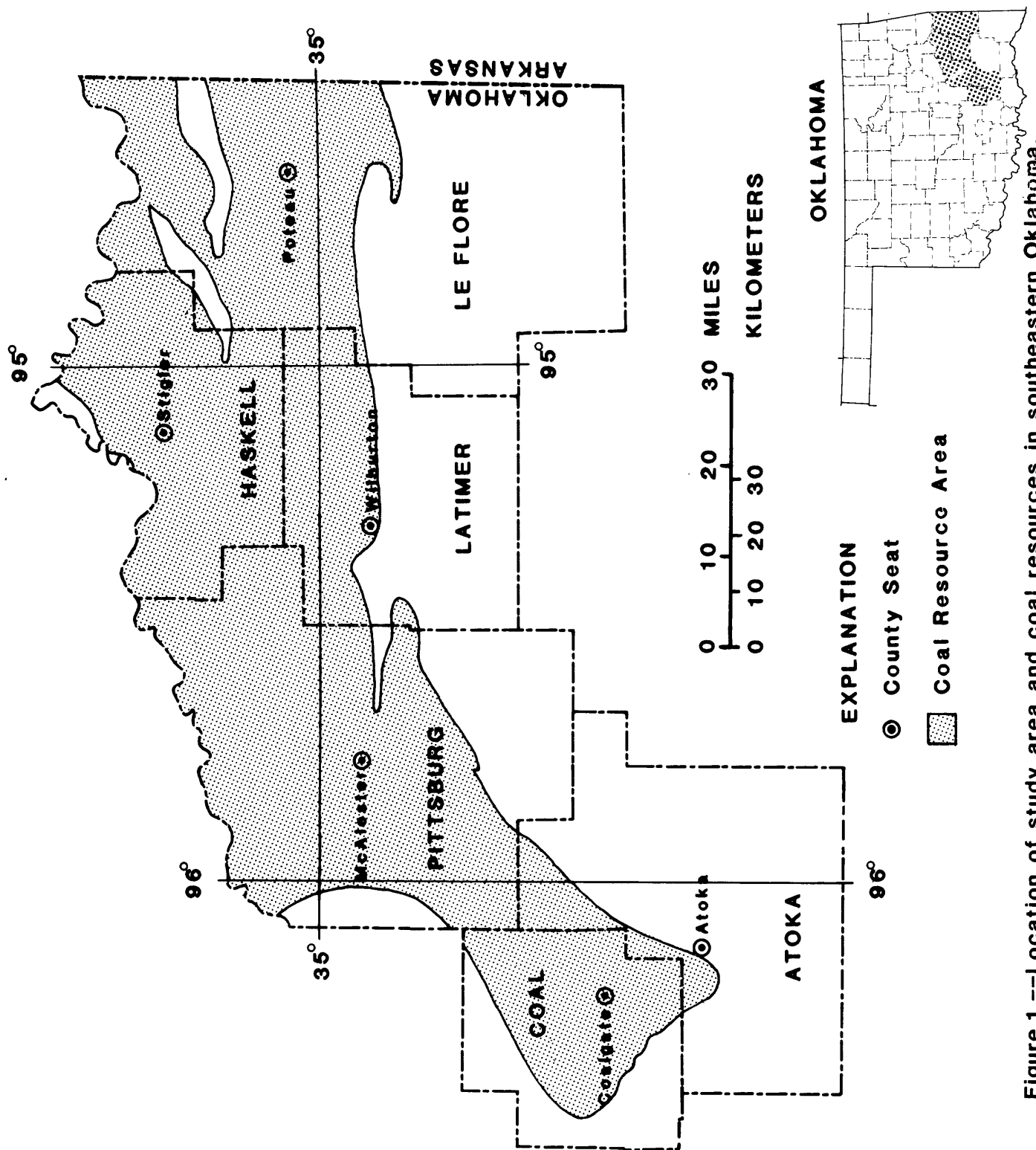
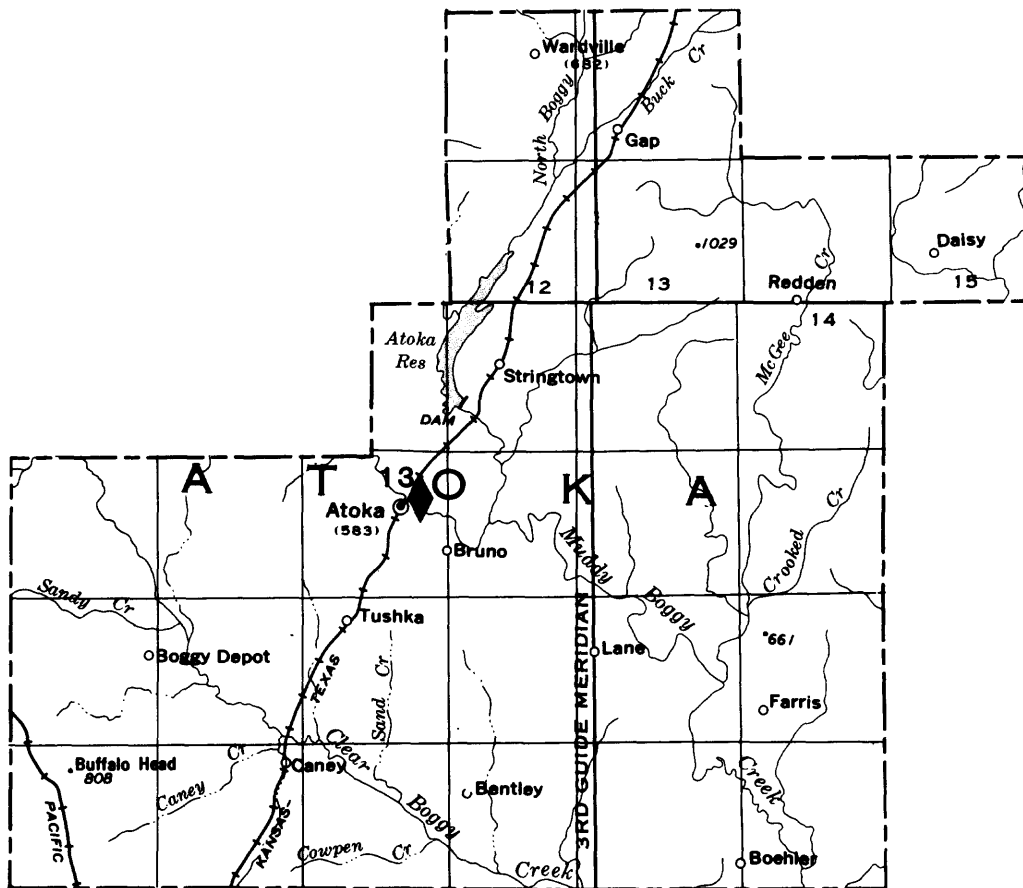



Figure 1.--Location of study area and coal resources in southeastern Oklahoma.



EXPLANATION

- 13  Stream data-collection site.
Number corresponds to site
description in Table 1.

OKLAHOMA

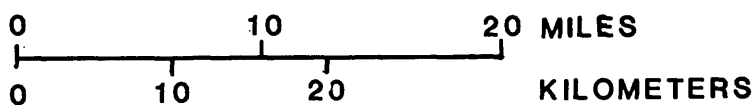
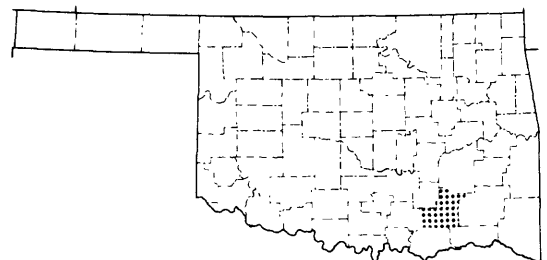
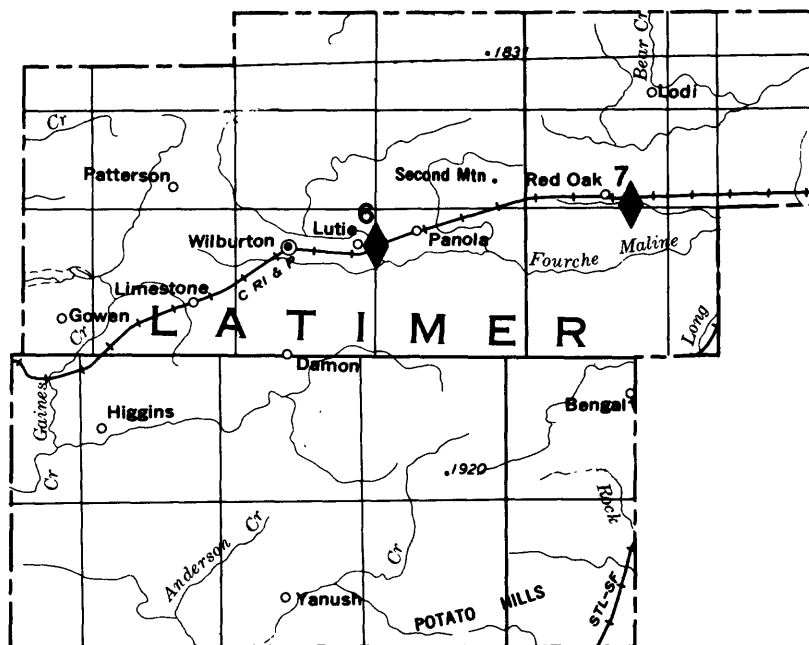
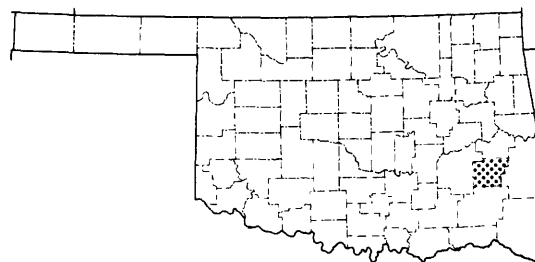


Figure 2.--Location of stream data-collection site in Atoka County.



OKLAHOMA

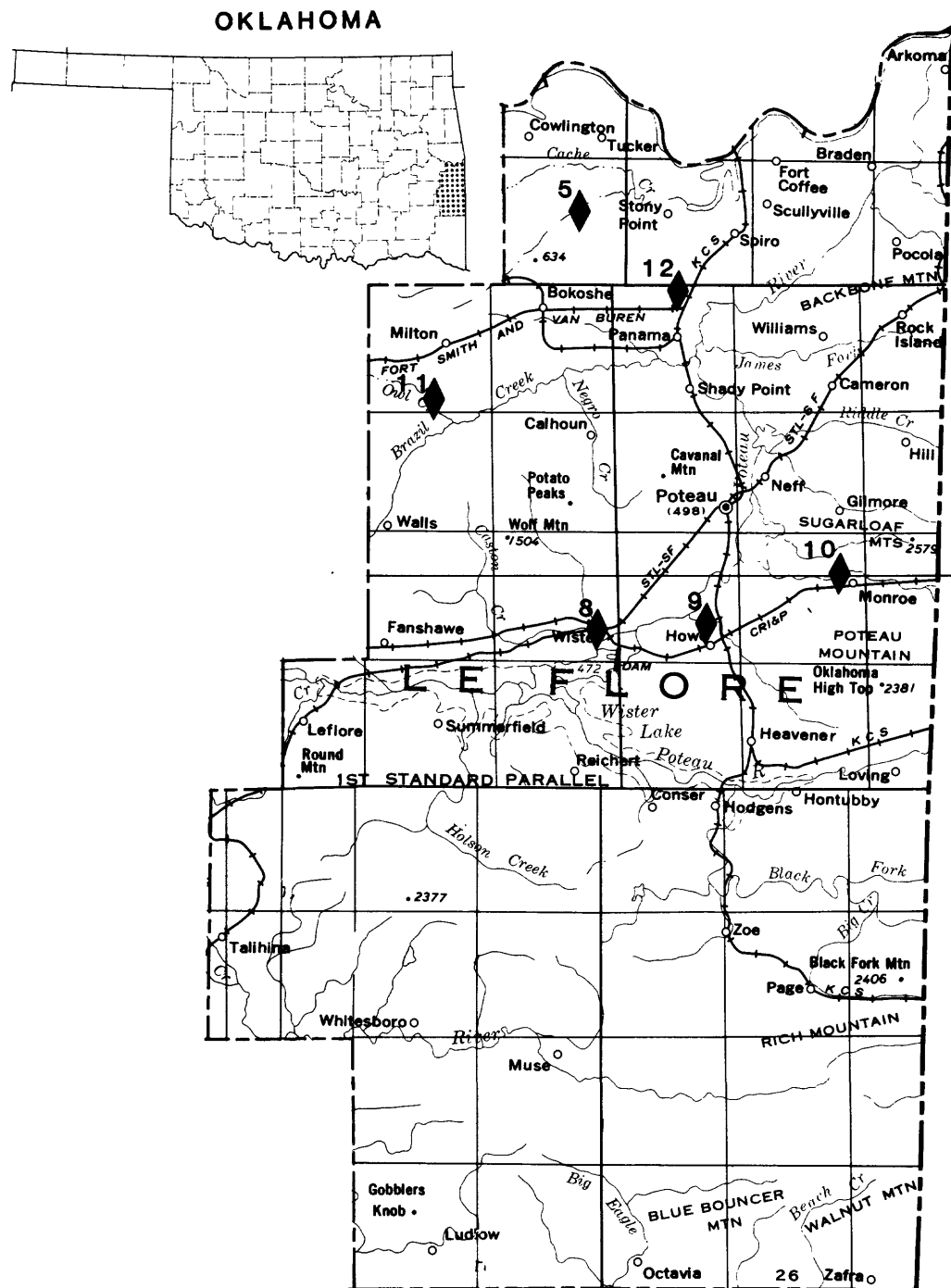


EXPLANATION

- 6  Stream data-collection sites.
Number corresponds to site description in Table 1.



Figure 3.--Location of stream data-collection sites in Latimer County.

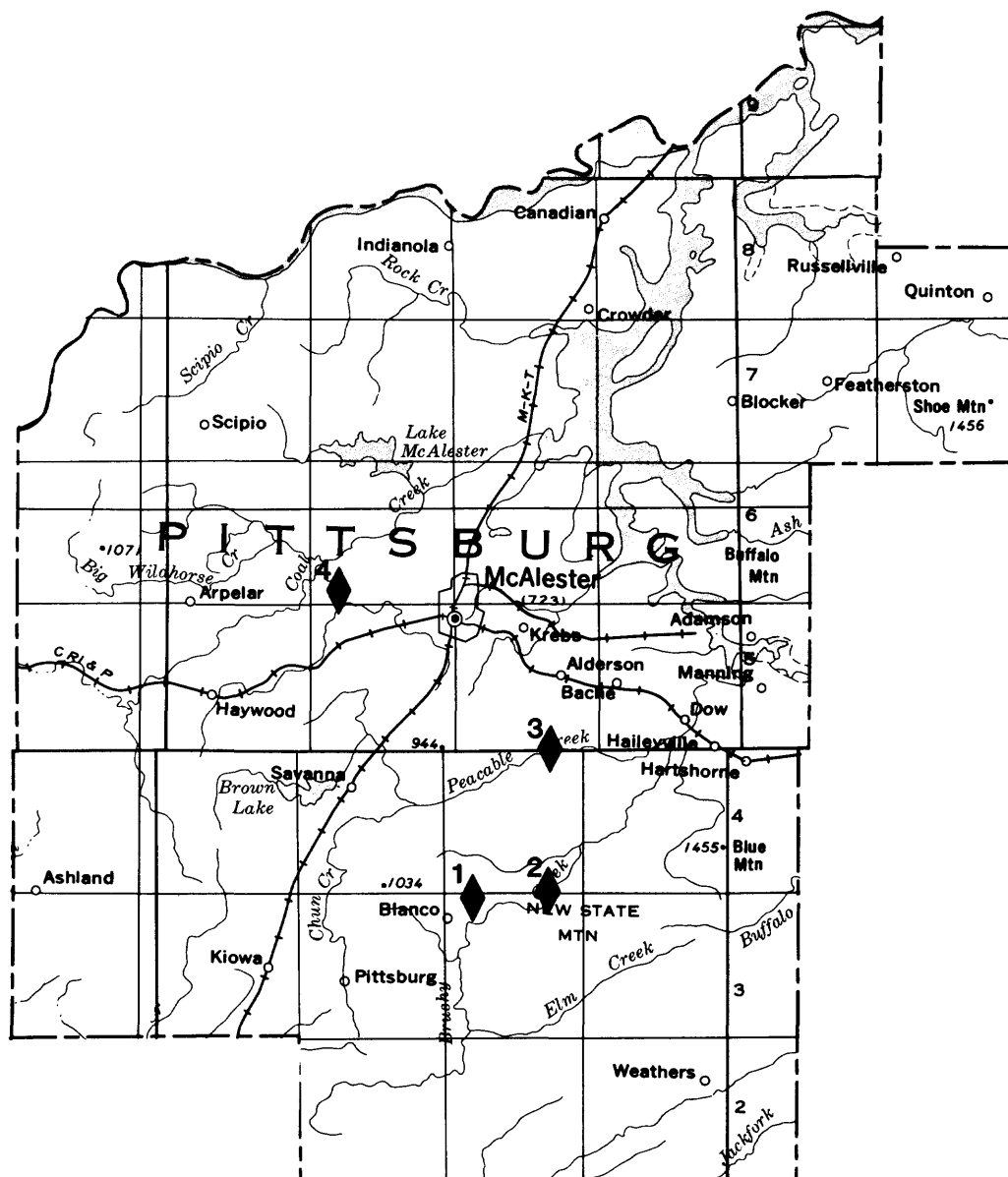


EXPLANATION

5 ♦ Stream data-collection sites.
Number corresponds to site description in Table 1.

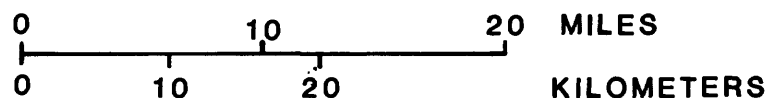
0 10 20 MILES
0 10 20 KILOMETERS

Figure 4.--Location of stream data-collection sites in Le Flore County.



EXPLANATION

- 1 ♦ Stream data-collection sites.
Number corresponds to site description in Table 1.



OKLAHOMA

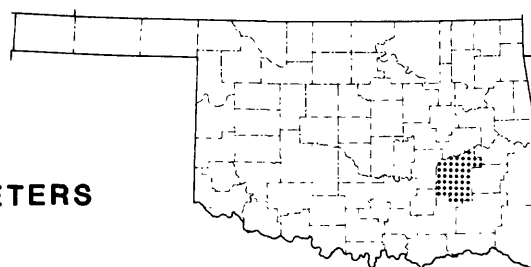


Figure 5.--Location of stream data-collection sites in Pittsburg County.

DATA COLLECTION

Streamflow data collection began in July 1978 with the installation of 12 stream-gaging stations (table 2) (See Buchanan and Somers, 1968 and 1969; and Carter and Davidian, 1968). In July 1980 all data collection ceased at site 4 because of difficulty in collecting representative samples; the data-collection instrumentation was moved to site 1. Stream discharge data collection was terminated at sites 1, 6, 9, 10, 11, 12, and 13 in September 1981, and at sites 2, 3, 5, 7, and 8 in September 1982.

Periodic water-quality measurements also began in July 1978 (See Stevens and others, 1975; Guy, 1969; and Guy and Norman, 1970). Physical properties of water were measured generally weekly in 1979, biweekly in 1980 and monthly in 1981 (table 3). Water-quality sampling was conducted on a biweekly to monthly basis during 1979 and 1980 and on a monthly basis in 1981 (table 4). Only a few water-quality samples and physical property measurements were made after September 1981.

Two flow-through water-quality monitors were operated at three sites. These monitors provided continuous records of specific conductance, pH, water temperature, and dissolved oxygen during flow periods. The monitors were shut down during extremely low flow and cold temperatures to prevent equipment damage. Daily specific conductance, pH, water temperature, and dissolved oxygen records are given for site 5, 1979 to 1981; site 6, 1979 to 1980; and site 7, 1981 (tables 5-8).

Biologic data were collected during 1981 at all sites except site 4. (See Greeson and others, 1977.) The number of organisms per milliliter of water along with the percent of the total sample each organism represents is shown in table 9.

REFERENCES

- Buchanan, T. J., and Somers, W. P., 1968, Stage measurement at gaging stations: U.S. Geological Survey Techniques of Water-Resources Investigations, book 3, chap. A7, 28 p.
- Buchanan, T. J., and Somers, W. P., 1969, Discharge measurements at gaging stations: U.S. Geological Survey Techniques of Water-Resources Investigations, book 3, chap. A8, 65 p.
- Carter, R. W., and Davidian, Jacob, 1968, General procedure for gaging streams: U.S. Geological Survey Techniques of Water-Resources Investigations, book 3, chap. A6, 13 p.
- Greeson, P. E., Ehlke, T. A., Irwin, G. A., Lium, B. W., and Slack, K. V., 1977, Methods for collection and analysis of aquatic biological and microbiological samples: U.S. Geological Survey Techniques of Water-Resources Investigations, book 5, chap. A4, 332 p.
- Guy, H. P., 1969, Laboratory theory and methods for sediment analysis: U.S. Geological Survey Techniques of Water-Resources Investigations, book 5, chap C1, 58 p.
- Guy, H. P., and Norman, V. W., 1970, Field methods for measurement of fluvial sediment: U.S. Geological Survey Techniques of Water-Resources Investigations, book 3, chap. C2, 59 p.
- Johnson, K. S., Brandon, C. C., Curtis, N. M., Jr., Ham, H. E., Marcher, M. V., and Roberts, J. F., 1972, Geology and earth resources of Oklahoma: Oklahoma Geological Survey Educational Publication 1, 8 p.
- Stevens, H. H., Jr., Ficke, J. F., and Smoot, G. F., 1975, Water temperature - influential factors, field measurement, and data-presentation: U.S. Geological Survey Techniques of Water-Resources Investigations, book 1, chap. D1, 65 p.

Table 1.--Descriptions of sampling sites

[Number to left of site name is the same as shown on figs. 2 to 5; number to right of site name is U.S. Geological Survey downstream order number]

SITE 1 TI CREEK NEAR BLANCO, OK (07231965)

LOCATION.--Lat 34°45'44", long 95°44'59", on west line of NW 1/4, sec. 5, T. 3 N., R. 15 E., Pittsburg County, Hydrologic Unit 11090204, at bridge on State Highway 63, 1.6 mi (2.6 km) east of Blanco, and at mile 1.3 (2.1 km).

DRAINAGE AREA.--4.82 mi² (12.48 km²).

SITE 2 BRUSHY CREEK NEAR HAILEYVILLE, OK (07231975)

LOCATION.--Lat 34°48'05", long 95°39'16", in NE 1/4 SE 1/4 sec. 19, T. 4 N., R. 16 E., Pittsburg County, Hydrologic Unit 11090204, on downstream left bank at county road bridge, 0.9 mi (1.4 km) south of junction of State Highway 63 and county road, 1.2 mi (1.9 km) northeast of Arch and 6.3 mi (10.1 km) southwest of Haileyville.

DRAINAGE AREA.--139 mi² (360 km²), of which 14.0 mi² (36.3 km²) is regulated by floodwater retarding structures.

SITE 3 PEACEABLE CREEK NEAR HAILEYVILLE, OK (07231990)

LOCATION.--Lat 34°51'07", long 95°39'15", on east edge of NE 1/4 sec. 6, T. 4 N., R. 16 E., Pittsburg County, Hydrologic Unit 11090204, at right downstream end of county road bridge, 3.3 mi (5.3 km) south of Bache, 5.0 mi (8 km) west of Haileyville, and at mile 5.7 (9.2 km).

DRAINAGE AREA.--134 mi² (347.1 km²), of which 11.0 mi² (28.5 km²) is regulated by floodwater retarding structures, and 21.0 mi² (54.4 km²) is regulated by Brown Lake.

SITE 4 DEER CREEK NEAR McALESTER, OK (07232024)

LOCATION.--Lat 34°56'58", long 95°51'00", near center of sec. 32, T. 6 N., R. 14 E., Pittsburg County, Hydrologic Unit 11090204 on right bank 500 ft (152 m) downstream from bridge on U.S. Highway 270, 0.4 mi (0.6 km) west of junction with Indian Nation Turnpike and 4.1 mi (6.6 km) west of McAlester.

DRAINAGE AREA.--38.3 mi² (99.2 km²).

SITE 5 COAL CREEK NEAR SPIRO, OK (07246615)

LOCATION.--Lat 35°15'11", long 94°45'17", on south edge of NW 1/4 sec. 15, T. 9 N., R. 24 E., Le Flore County, Hydrologic Unit 11110104, on right downstream side of bridge on U.S. Highway 59 and State Highway 9, 0.4 mi (0.6 km) southeast of junction of U.S. Highway 59 and State Highway 9, 7.1 mi (11.4 km) west of Spiro, and at mile 2.0 (3.2 km).

DRAINAGE AREA.--18.1 mi² (46.9 km²).

SITE 6 FOURCHE MALINE NEAR WILBURTON, OK (07247450)

LOCATION.--Lat 34°55'25", long 95°15'10", on east line of NW 1/4 sec. 12, T. 5 N., R. 19 E., Latimer County, Hydrologic Unit 11110105, on right downstream end of bridge on U.S. Highway 270, 2.5 mi (4 km) east of water tower in Wilburton, and at mile 53.1 (85.4 km).

DRAINAGE AREA.--56.2 mi² (145.6 km²), of which 35.1 mi² (91.0 km²) is regulated by floodwater retarding structures.

SITE 7 RED OAK CREEK NEAR RED OAK, OK (07247550)

LOCATION.--Lat 34°56'23", long 95°01'58", on east line in NE 1/4 sec. 1, T. 5 N., R. 22 E., Latimer County, Hydrologic Unit 11110105, on right downstream side of bridge on county road, 0.9 mi (1.4 km) south of intersection with U.S. Highway 270, and 2.5 mi (4.0 km) southeast of Red Oak.

DRAINAGE AREA.--13.10 mi² (33.9 km²).

SITE 8 CASTON CREEK AT WISTER, OK (07248600)

LOCATION.--Lat 34°57'27", long 94°44'18", on SW 1/4 SE 1/4 sec. 26, T. 6 N., R. 24 E., Le Flore County, Hydrologic Unit 11110105, at pier on left downstream side of county road bridge 0.15 mi (0.24 km) downstream from Mountain Creek, and 0.8 mi (1.3 km) along county road southwest of intersection with U.S. Highway 270 at Wister, and at mile 2.4 (3.9 km).

DRAINAGE AREA.--72.9 mi² (188.8 km²), of which 46.3 mi² (120 km²) is regulated by floodwater retarding structures.

SITE 9 MORRIS CREEK AT HOWE, OK (07248620)

LOCATION.--Lat 34°57'34", long 94°37'45", NE 1/4 SE 1/4 sec. 26, T. 6 N., R. 25 E., Le Flore County, Hydrologic Unit 11110105, at left downstream end of bridge on old U.S. Highway 59, 0.8 mi (1.3 km) northeast of downtown Howe, and at mile 4.2 (6.8 km).

DRAINAGE AREA.--19.4 mi² (50.2 km²).

SITE 10 SUGARLOAF CREEK NEAR MONROE, OK (07248700)

LOCATION.--Lat 35°00'00", long 94°31'21", on east line of SE 1/4 sec. 11, T. 6 N., R. 26 E., Le Flore County, Hydrologic Unit 11110105, on left downstream end of bridge on State Highway 112, and 1 mi (1.6 km) northwest of Monroe.

DRAINAGE AREA.--53.6 mi² (138.8 km²).

SITE 11 OWL CREEK NEAR McCURTAIN, OK (07249100)

LOCATION.--Lat 34°07'40", long 94°53'03", on east line NW 1/4 sec. 33, T. 8 N., R. 23 E., Le Flore County, Hydrologic Unit 11110105, on downstream side of bridge at left pier on county road bridge 3.4 mi (5.5 km) south from intersection with State Highway 31 at Milton Cemetery, 5.2 mi (8.4 km) southeast of McCurtain, and at mile 3.8 (6.1 km).

DRAINAGE AREA.--27.9 mi² (72.3 km²).

SITE 12 HOLI-TUSKA CREEK NEAR PANAMA, OK (07249422)

LOCATION.--Lat 35°12'46", long 94°40'21", on east edge of NE 1/4 sec. 32, T. 9 N., R. 25 E., Le Flore County, Hydrologic Unit 11110105, on left downstream end of culvert on U.S. Highways 59 and 271, and 3.2 mi (5.1 km) north from center of Panama, and at mile 6.2 (10.0 km).

DRAINAGE AREA.--4.39 mi² (11.37 km²).

SITE 13 MUDDY BOGGY CREEK AT ATOKA, OK (07332950)

LOCATION.--Lat 34°23'23", long 96°07'12", in SE 1/4 SW 1/4 sec. 11. T. 2 S., R. 11 E., Atoka County, Hydrologic Unit 11140103, on right downstream side of MKT railroad bridge in northeast Atoka and at mile 80.1 (128.9 km).

DRAINAGE AREA.--445 mi² (1,153 km²), of which 32.6 mi² (84.0 km²) is regulated by floodwater retarding structures.

Table 2.--Mean daily stream discharge, in cubic feet per second, at selected sites

SITE 1 TI CREEK NEAR BLANCO

DAY	WATER YEAR 1979 TO SEPTEMBER 1980												JULY	AUG	SEPT
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE						
1	---	---	---	---	---	---	---	---	---	---	---	.00	.00	.00	
2	---	---	---	---	---	---	---	---	---	---	---	.00	.00	.00	
3	---	---	---	---	---	---	---	---	---	---	---	.00	.00	.00	
4	---	---	---	---	---	---	---	---	---	---	---	.00	.00	.00	
5	---	---	---	---	---	---	---	---	---	---	---	.00	.00	.00	
6	---	---	---	---	---	---	---	---	---	---	---	.00	.00	.00	
7	---	---	---	---	---	---	---	---	---	---	---	.00	.00	.00	
8	---	---	---	---	---	---	---	---	---	---	---	.00	.00	.00	
9	---	---	---	---	---	---	---	---	---	---	---	.00	.00	.00	
10	---	---	---	---	---	---	---	---	---	---	---	.00	.00	.00	
11	---	---	---	---	---	---	---	---	---	---	---	.00	.00	.00	
12	---	---	---	---	---	---	---	---	---	---	---	.00	.00	.00	
13	---	---	---	---	---	---	---	---	---	---	---	.00	.00	.00	
14	---	---	---	---	---	---	---	---	---	---	---	.00	.00	.00	
15	---	---	---	---	---	---	---	---	---	---	---	.00	.00	.00	
16	---	---	---	---	---	---	---	---	---	---	---	.00	.00	.00	
17	---	---	---	---	---	---	---	---	---	---	---	.00	.00	.00	
18	---	---	---	---	---	---	---	---	---	---	---	.00	.00	.00	
19	---	---	---	---	---	---	---	---	---	---	---	.00	.00	.00	
20	---	---	---	---	---	---	---	---	---	---	---	.00	.00	.00	
21	---	---	---	---	---	---	---	---	---	---	---	.00	.00	.00	
22	---	---	---	---	---	---	---	---	---	---	---	.00	.00	.00	
23	---	---	---	---	---	---	---	---	---	---	---	.00	.00	.00	
24	---	---	---	---	---	---	---	---	---	---	---	.00	.00	.00	
25	---	---	---	---	---	---	---	---	---	---	---	.00	.00	.00	
26	---	---	---	---	---	---	---	---	---	---	---	.00	.00	.00	
27	---	---	---	---	---	---	---	---	---	---	---	.00	.00	.00	
28	---	---	---	---	---	---	---	---	---	---	---	.00	.00	.32	
29	---	---	---	---	---	---	---	---	---	---	---	.00	.00	.27	
30	---	---	---	---	---	---	---	---	---	---	---	.00	.00	.03	
31	---	---	---	---	---	---	---	---	---	---	---	.00	.00	---	
TOTAL												.00	.00	.62	
MEAN												.000	.000	.021	
MAXIMUM												.00	.00	.32	
MINIMUM												.00	.00	.00	
INCHES												.00	.00	.00	
ACRE-Feet												.00	.00	1.2	

Table 2.--Mean daily stream discharge, in cubic feet per second, at selected sites--Continued

SITE 1 TI CREEK NEAR BLANCO

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT
1	.00	.08	.05	.08	.10	8.3	.44	.02	17	4.2	.09	.00
2	.00	.05	.04	.06	.07	3.8	.32	.01	21	.72	.03	.00
3	.00	.03	.03	.07	.07	21	16	.01	5.1	.28	.01	.00
4	.00	.02	.02	.05	.05	17	6.2	.01	2.9	.20	.00	.00
5	.00	.00	.02	.05	.05	3.6	1.5	.02	21	.15	.00	.00
6	.00	.00	.02	.06	.04	2.0	.77	.02	242	.11	.00	.00
7	.00	.00	.02	.07	.04	1.3	.51	.02	22	.06	.03	.00
8	.00	.00	.79	.06	.04	1.6	.39	.03	6.3	.02	.04	.00
9	.00	.00	12	.05	.52	1.1	.33	16	2.9	.01	.00	.00
10	.00	.00	4.5	.04	2.7	.86	.29	7.7	1.8	.00	.00	.00
11	.00	.00	2.4	.04	.40	.68	.24	1.7	1.3	.00	.00	.00
12	.00	.00	1.5	.04	.26	.57	.20	.88	1.0	.00	.00	.00
13	.00	.00	.96	.04	.23	.47	.15	.65	.88	.00	.00	.00
14	.00	.00	.72	.05	.22	.41	.10	.87	.79	.00	.00	.00
15	.00	.00	.60	.04	.20	.44	.09	.66	11	.00	.00	.00
16	.00	.00	.50	.03	.17	.47	.10	.53	26	.00	.00	.00
17	10	2.1	.44	.03	.14	.36	.08	.48	3.6	.00	.00	.00
18	.50	1.6	.41	.03	.12	.41	.07	.42	1.7	.00	.00	.00
19	.12	.47	.32	.03	.10	.53	.22	.33	1.0	.00	.00	.00
20	.04	.27	.27	.06	.09	.47	.24	.29	.74	.00	.00	.00
21	.02	.22	.22	.07	.07	.39	.14	.26	.56	.00	.00	.00
22	.00	.14	.22	.07	.06	.32	.60	.23	.45	.00	.00	.00
23	.00	.24	.26	.07	.05	.27	.68	.24	.39	.00	.00	.00
24	.00	.29	.24	.09	.04	.26	.27	1.2	.38	.00	.00	.00
25	.00	.22	.16	.08	.04	.24	.14	.55	.38	.00	.00	.00
26	.00	.12	.12	.08	.04	.19	.07	.43	.34	.00	.00	.00
27	10	.10	.10	.06	.04	.19	.05	.35	.30	.00	.00	.00
28	.96	.07	.10	.05	42	.19	.03	.32	.27	.00	.00	.17
29	.34	.06	.10	.04	---	13	.02	29	.23	20	.00	.01
30	.19	.05	.10	.03	---	1.8	.02	18	.13	1.1	.00	.00
31	.12	---	.10	.05	---	.76	---	5.7	---	.28	.00	---
TOTAL	22.29	6.13	105.54	1.67	47.95	82.98	30.26	86.93	393.44	27.13	.20	.18
MEAN	.72	.20	3.40	.054	1.71	2.68	1.01	2.80	13.1	.88	.006	.006
MAXIMUM	10	2.1	.79	.09	.42	21	.16	.29	242	.20	.09	.17
MINIMUM	.00	.00	.02	.03	.04	.19	.02	.01	.13	.00	.00	.00
INCHES	.17	.05	.81	.01	.37	.64	.23	.67	3.04	.21	.00	.00
ACRE-Feet	.44	.12	209	3.3	.95	165	.60	172	780	.54	.4	.4
TOTAL	804.70	MEAN 2.20	MAXIMUM	242	MINIMUM	.00	INCHES 6.21	ACRE-Feet 1600				

Table 2.--Mean daily stream discharge, in cubic feet per second, at selected sites--Continued

SITE 2 BRUSHY CREEK NEAR HAILEYVILLE

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT
1	---	---	---	---	---	---	---	---	---	.00	.00	.00
2	---	---	---	---	---	---	---	---	---	.00	.00	.00
3	---	---	---	---	---	---	---	---	---	.00	.00	.00
4	---	---	---	---	---	---	---	---	---	.00	.00	.00
5	---	---	---	---	---	---	---	---	---	.00	.00	.00
6	---	---	---	---	---	---	---	---	---	.00	.00	.00
7	---	---	---	---	---	---	---	---	---	.00	.00	.00
8	---	---	---	---	---	---	---	---	---	.00	.00	.00
9	---	---	---	---	---	---	---	---	---	.00	.00	.00
10	---	---	---	---	---	---	---	---	---	.00	.00	.00
11	---	---	---	---	---	---	---	---	---	.00	.00	.00
12	---	---	---	---	---	---	---	---	---	.00	.00	.00
13	---	---	---	---	---	---	---	---	---	.00	.00	.00
14	---	---	---	---	---	---	---	---	---	.00	.00	.00
15	---	---	---	---	---	---	---	---	---	.00	.00	.00
16	---	---	---	---	---	---	---	---	---	.00	.00	.00
17	---	---	---	---	---	---	---	---	---	.00	.00	.00
18	---	---	---	---	---	---	---	---	---	.00	.00	.00
19	---	---	---	---	---	---	---	---	---	.00	.00	.00
20	---	---	---	---	---	---	---	---	---	.00	.00	.00
21	---	---	---	---	---	---	---	---	---	.00	.00	.00
22	---	---	---	---	---	---	---	---	---	.00	.00	.00
23	---	---	---	---	---	---	---	---	---	.00	.00	.00
24	---	---	---	---	---	---	---	---	---	.00	.00	.00
25	---	---	---	---	---	---	---	---	---	.00	.00	.00
26	---	---	---	---	---	---	---	---	---	.00	.00	.00
27	---	---	---	---	---	---	---	---	---	.00	.00	.00
28	---	---	---	---	---	---	---	---	---	.00	.00	.00
29	---	---	---	---	---	---	---	---	---	.00	.00	.00
30	---	---	---	---	---	---	---	---	---	.00	.00	.00
31	---	---	---	---	---	---	---	---	---	.00	.00	.00
TOTAL										.00	.00	.00
MEAN										.00	.00	.00
MAXIMUM										.00	.00	.00
MINIMUM										.00	.00	.00
INCHES										.00	.00	.00
ACRE-FEET										.00	.00	.00

Table 2.--Mean daily stream discharge, in cubic feet per second, at selected sites--Continued

SITE 2 BRUSHY CREEK NEAR HAILEYVILLE

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT
WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979												
1	.00	.00	7.8	1.6	20	370	3600	14	54	3.3	1.4	.61
2	.00	.00	4.5	1.6	16	173	1800	58	193	2.6	1.3	.47
3	.00	.00	8.0	1.6	15	1000	300	127	251	1.9	1.0	.35
4	.00	.00	5.7	1.6	14	372	212	62	102	1.6	.80	.29
5	.00	.00	3.6	1.7	14	144	130	55	58	1.4	.60	.21
6	.00	.00	3.4	1.9	14	84	90	38	48	2.4	.48	.15
7	.00	.00	3.3	1.9	18	57	65	26	5870	6.4	.37	.12
8	.00	.00	3.0	1.9	34	40	49	19	2690	5.4	.32	.08
9	.00	.00	2.5	2.1	45	31	39	15	277	3.8	.24	.05
10	.00	.00	2.4	2.3	29	24	33	13	160	20	.18	.03
11	.00	.00	2.4	2.3	75	20	42	892	106	5.7	.17	.02
12	.00	.00	2.4	3.9	281	17	113	389	55	3.0	.17	.01
13	.00	.00	2.2	40	147	15	58	116	37	2.0	.14	.00
14	.00	.00	1.7	56	85	14	37	57	28	1.6	.11	.00
15	.00	.00	1.6	28	63	12	28	35	21	1.6	.08	.00
16	.00	.29	1.3	21	43	11	23	24	17	4.4	.05	.00
17	.00	137	.94	50	29	11	19	18	13	2.0	.03	.00
18	.00	43	.94	267	23	12	17	14	10	1.6	.02	.00
19	.00	18	.94	1140	20	1060	16	12	7.7	3.7	.01	.00
20	.00	7.3	.43	1090	20	5580	338	66	5.9	7.0	.01	.00
21	.00	3.7	.17	278	21	582	671	3600	4.9	4.2	.00	.01
22	.00	2.2	.19	122	95	674	157	2920	4.5	2.6	.05	.01
23	.00	1.0	.33	75	264	594	85	584	3.9	1.9	.08	.00
24	.00	.27	.37	51	249	213	56	228	3.4	1.5	.10	.00
25	.00	.09	.42	37	905	109	39	121	9.5	1.1	.14	.05
26	.00	34	.56	65	891	296	27	84	7.0	1.0	.14	.40
27	.00	131	.60	145	706	1110	22	145	4.5	3.7	.45	.47
28	.00	53	.60	77	956	221	19	270	3.6	2.0	.46	.31
29	.00	24	.60	41	---	128	17	381	4.2	1.9	.13	.19
30	.00	14	.67	30	---	510	15	153	4.0	1.7	.10	.14
31	.00	---	1.2	24	---	355	---	86	---	1.5	.11	---
TOTAL	.00	497.56	64.76	3661.4	5092	13839	8117	10622	10053.1	104.5	9.24	3.97
MEAN	.00	16.6	2.09	118	182	446	271	343	335	3.37	.30	.13
MAXIMUM	.00	137	8.0	1140	956	5580	3600	3600	5870	20	1.4	.61
MINIMUM	.00	.00	.17	1.6	14	11	15	12	3.4	1.0	.00	.00
INCHES	.00	.13	.02	.98	1.36	3.70	2.17	2.84	2.69	.03	.00	.00
ACRE-FEET	.00	987	128	7260	10100	27450	16100	21070	19940	207	.18	7.9
TOTAL	52064.53	MEAN 143		MAXIMUM .00	MINIMUM .00	INCHES 13.93	ACRE-FEET 103300					

Table 2.--Mean daily stream discharge, in cubic feet per second, at selected sites--Continued

SITE 2 BRUSHY CREEK NEAR HAILEYVILLE

WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT
1	.09	29	.54	2.7	3.9	2.4	.80	187	118	.19	.00	.00
2	.06	13	.48	2.5	3.6	2.1	.87	1920	56	.11	.00	.00
3	.03	6.7	.45	2.3	3.3	2.1	.80	1570	33	.09	.00	.00
4	.01	3.8	.36	2.2	3.1	2.0	.73	247	26	.07	.00	.00
5	.00	2.2	.32	1.9	3.0	1.6	.94	120	14	.05	.00	.00
6	.00	1.3	.28	1.6	2.7	1.5	3.6	82	12	.03	.00	.00
7	.00	.79	.23	1.2	2.4	1.4	2.9	60	7.5	.02	.00	.00
8	.00	.47	.20	.91	303	1.2	2.2	43	6.6	.01	.00	.00
9	.00	.43	.19	.99	526	1.2	1.9	31	5.7	.00	.00	.00
10	.00	.25	.13	.98	148	1.1	1.7	23	4.9	.00	.00	.00
11	.00	.19	.13	.94	105	.98	1.7	16	4.2	.00	.00	.00
12	.00	.14	.34	.99	82	.93	1.5	12	3.7	.00	.00	.00
13	.00	.08	.59	1.0	56	.86	1.3	9.4	3.3	.00	.00	.00
14	.00	.04	.78	.87	41	.83	9.7	5.9	2.8	.00	.00	.00
15	.00	.02	1.9	.68	30	.71	12	140	2.4	.00	.00	.00
16	.00	.01	.94	.66	24	.53	8.1	1640	2.0	.00	.00	.00
17	.39	.01	.78	.66	18	1.4	6.8	237	1.8	.00	.00	.00
18	.62	.01	1.1	.63	14	1.9	5.2	302	1.6	.00	.00	.00
19	12	.01	.94	.70	12	2.1	4.5	1030	1.6	.00	.00	.00
20	4.3	.02	.87	1.1	10	1.6	6.3	216	2.7	.00	.00	.00
21	2.1	.14	.94	21	8.6	1.2	6.1	148	2.1	.00	.00	.00
22	2.9	.25	.94	64	7.4	1.0	4.9	204	1.6	.00	.00	.00
23	7.0	1.7	1.5	39	6.4	.95	3.9	117	1.2	.00	.00	.00
24	5.5	2.5	13	24	5.5	.82	3.4	80	1.3	.00	.00	.00
25	2.6	1.9	16	16	4.9	.77	6.3	51	1.4	.00	.00	.00
26	1.4	1.5	12	12	4.2	.65	462	34	1.3	.00	.00	.00
27	.69	1.0	10	8.6	3.7	.58	216	24	1.0	.00	.00	.00
28	.54	.79	7.2	6.4	3.4	.60	98	17	.80	.00	.00	.00
29	.54	.67	5.3	5.5	2.9	.60	57	152	.43	.00	.00	.00
30	1.8	.59	4.1	4.9	---	.69	37	729	.32	.00	.00	.00
31	22	---	3.3	4.4	---	.75	---	309	---	.00	.00	.00
TOTAL	164.56	69.51	85.83	231.31	1438.0	37.05	968.14	9756.3	321.25	.57	.00	46.00
MEAN	5.31	2.32	2.77	7.46	49.6	1.20	32.3	315	10.7	.018	.000	1.53
MAXIMUM	.62	.29	.16	.64	526	2.4	462	1920	118	.19	.00	.32
MINIMUM	.00	.01	.13	.63	2.4	.53	.73	5.9	.32	.00	.00	.00
INCHES	.04	.02	.02	.06	.38	.01	.26	2.61	.09	.00	.00	.01
ACRE-FOOT	326	138	170	459	2850	.73	1920	19350	637	1.1	.00	.91
TOTAL	13118.52	MEAN 35.8	MAXIMUM	MINIMUM	.00	INCHES 3.51	ACRE-FOOT	26020				

Table 2.--Mean daily stream discharge, in cubic feet per second, at selected sites--Continued

SITE 2 BRUSHY CREEK NEAR HAILEYVILLE

WATER YEAR OCTOBER 1980 to SEPTEMBER 1981

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT
1	13	3.0	1.6	2.8	.97	795	66	5.2	148	28	15	1.7
2	5.5	1.8	.92	2.5	.87	292	41	3.9	207	18	8.0	1.2
3	2.8	1.1	.71	2.2	.90	191	49	3.1	120	11	5.0	.90
4	1.4	.68	.67	2.0	.93	781	123	2.4	73	11	3.5	.62
5	.45	.38	.65	2.0	.70	290	39	2.3	100	7.4	2.6	.41
6	.16	.83	.50	2.0	.66	157	23	2.2	1870	4.6	1.9	.24
7	.06	1.4	.63	2.0	.70	96	16	2.0	2730	3.5	3.1	.12
8	.02	1.2	1570	1.6	.71	71	11	2.2	354	2.9	2.9	.02
9	.00	.89	858	1.5	.87	58	9.7	84	201	9.2	3.7	.00
10	.00	.91	167	1.4	5.5	43	8.3	834	106	6.1	5.5	.00
11	.00	1.1	83	1.2	14	33	7.1	218	63	3.8	4.5	.00
12	.00	1.1	58	1.0	13	27	6.3	96	42	2.6	3.4	.00
13	.00	1.0	42	1.0	8.3	22	5.4	52	29	2.0	2.5	.06
14	.00	.89	31	.88	5.6	18	4.5	226	19	1.6	2.0	.55
15	.00	.80	23	.83	4.4	16	4.2	117	14	1.3	1.6	.49
16	.00	.88	18	.87	3.7	14	3.8	57	164	1.0	1.7	.10
17	.02	2.4	14	.74	3.1	13	3.3	37	84	.85	1.7	.00
18	7.4	20	11	.66	2.6	12	2.8	27	38	.72	210	.00
19	3.4	37	8.9	.65	2.2	11	4.1	18	20	.61	44	.00
20	4.3	21	7.3	.68	1.9	13	3.8	12	12	.50	19	.00
21	2.6	13	6.0	.79	1.5	12	4.7	8.7	8.1	.37	10	.00
22	1.4	9.3	5.1	.73	1.4	10	5.2	6.5	5.8	.23	5.7	.00
23	.66	7.3	4.7	.69	1.1	9.0	219	5.2	4.6	.10	3.6	.00
24	.47	5.8	4.4	.66	3.8	8.3	144	8.0	3.6	.01	2.5	.00
25	.26	4.9	3.9	.59	4.1	7.1	57	63	2.9	.00	1.8	.00
26	.10	4.8	3.6	.54	3.1	6.3	28	31	2.6	.00	1.5	.00
27	44	4.4	3.4	.50	2.4	5.8	17	27	2.2	.00	2.3	1.5
28	81	3.9	3.3	.43	1180	5.2	11	20	1.8	.58	1.5	28
29	25	3.3	3.2	.39	---	399	8.5	177	1.5	134	4.5	3.0
30	10	2.4	3.2	.33	---	290	6.5	688	1.3	269	5.0	1.1
31	5.1	---	3.1	.43	---	126	---	364	---	41	2.6	---
TOTAL	209.10	157.46	2940.78	34.59	1269.01	3831.7	932.2	3199.7	6428.4	561.97	382.6	40.01
MEAN	6.75	5.25	94.9	1.12	45.3	124	31.1	103	214	18.1	12.3	1.33
MAXIMUM	81	37	1570	2.8	1180	795	219	834	2730	269	210	28
MINIMUM	.00	.38	.50	.33	.66	5.2	2.8	2.0	1.3	.00	1.5	.00
INCHES	.06	.04	.79	.01	.34	1.03	.25	.86	1.72	.15	.10	.01
ACRE-Feet	415	312	5830	.69	2520	7600	1850	6350	12750	1110	759	.79
TOTAL	19987.52	MEAN 54.8	MAXIMUM	MINIMUM	.00	INCHES 5.35	ACRE-Feet	39650				

Table 2.--Mean daily stream discharge, in cubic feet per second, at selected sites--Continued

SITE 2 BRUSHY CREEK NEAR HAILEYVILLE

WATER YEAR OCTOBER 1981 to SEPTEMBER 1982

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT
1	1.0	2070	60	9.3	779	100	30	5.7	692	5.8	.83	.20
2	2.3	386	45	9.0	770	89	22	5.7	492	4.7	1.0	.30
3	1.8	199	43	9.1	750	78	20	5.7	737	4.1	1.1	.30
4	1.3	151	41	9.2	328	66	18	5.6	1040	3.7	.96	.20
5	1.1	126	40	9.0	221	54	15	5.5	332	3.4	.72	.10
6	18	90	38	16	136	69	12	5.7	162	3.1	.56	.10
7	8.5	66	37	15	101	150	10	5.7	92	1080	.00	.00
8	3.3	1280	36	13	92	108	9.2	5.6	58	344	.00	.00
9	1.8	2030	33	12	136	76	8.3	5.4	39	10	.00	.00
10	1.3	399	29	10	126	58	7.6	4.7	32	2.7	.00	.00
11	.94	226	26	8.6	112	49	7.4	4.4	27	.47	.00	.00
12	2.0	164	23	8.5	100	45	7.1	128	27	.10	.00	.00
13	2860	119	22	7.9	92	66	6.7	3200	34	.05	.00	.00
14	9060	90	22	7.3	84	961	6.3	2020	22	.00	.00	.00
15	795	67	21	7.5	74	435	6.0	614	20	.00	.00	.00
16	4350	56	21	7.4	66	202	6.0	235	98	.00	.00	.00
17	5410	48	19	6.8	190	116	5.8	139	78	.00	.00	.00
18	4190	41	16	6.7	160	80	4.6	105	33	.00	.00	.00
19	387	34	16	6.9	130	62	4.5	48	20	.00	.00	.00
20	285	30	15	7.4	100	51	4.8	28	14	.00	.00	.00
21	248	27	14	8.0	90	38	4.2	17	12	.00	.00	.00
22	374	24	14	271	80	28	3.8	16	29	.00	.00	.00
23	383	22	14	330	75	22	4.0	19	22	.00	.00	.00
24	267	20	14	156	70	19	4.0	138	14	.00	.00	.00
25	228	17	13	108	66	17	4.1	295	11	.00	.00	.00
26	210	16	13	75	64	14	4.4	134	9.3	.00	.00	.00
27	158	15	12	54	62	13	4.5	112	8.7	.83	.00	.00
28	107	14	12	43	140	12	4.9	3970	8.2	.77	.70	.00
29	77	13	11	36	---	12	5.7	1670	7.8	.77	.40	.00
30	63	180	10	3990	---	21	5.7	271	7.6	.83	.30	.00
31	1540	---	10	5870	---	48	---	1600	---	.83	.20	---
TOTAL	31035.34	8020	740	11127.6	5194	3159	256.6	14818.7	4178.6	1466.15	6.77	1.20
MEAN	1001	267	23.9	359	186	102	8.55	478	139	47.3	.22	.040
MAXIMUM	9060	2070	60	5870	779	961	30	3970	1040	1080	1.1	.30
MINIMUM	.94	13	10	6.7	62	12	3.8	4.4	7.6	.00	.00	.00
INCHES	8.31	2.15	.20	2.98	1.39	.85	.07	3.97	1.12	.39	.00	.00
ACRE-FEET	1560	15910	1470	22070	10300	6270	509	29390	8290	2910	.13	2.4
TOTAL	80003.96	MEAN 219		MAXIMUM	9060	MINIMUM	.00	INCHES 21.41	ACRE-FEET	158700		

Table 2.--Mean daily stream discharge, in cubic feet per second, at selected sites--Continued

SITE 3 PEACEABLE CREEK NEAR HAILEYVILLE

WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT
1	---	---	---	---	---	---	---	---	---	3.7	.45	.00
2	---	---	---	---	---	---	---	---	---	2.4	.40	.00
3	---	---	---	---	---	---	---	---	---	1.5	.17	.00
4	---	---	---	---	---	---	---	---	---	.84	.27	.00
5	---	---	---	---	---	---	---	---	---	.50	.70	.00
6	---	---	---	---	---	---	---	---	---	.30	2.7	.00
7	---	---	---	---	---	---	---	---	---	.60	1.2	.00
8	---	---	---	---	---	---	---	---	---	1.3	.96	.00
9	---	---	---	---	---	---	---	---	---	.88	.78	.00
10	---	---	---	---	---	---	---	---	---	.50	.58	.00
11	---	---	---	---	---	---	---	---	---	.30	.54	.00
12	---	---	---	---	---	---	---	---	---	.17	.30	.00
13	---	---	---	---	---	---	---	---	---	.11	.10	.00
14	---	---	---	---	---	---	---	---	---	.07	.05	.00
15	---	---	---	---	---	---	---	---	---	.04	.03	.00
16	---	---	---	---	---	---	---	---	---	.02	.01	.00
17	---	---	---	---	---	---	---	---	---	.00	.00	.00
18	---	---	---	---	---	---	---	---	---	.00	.00	.00
19	---	---	---	---	---	---	---	---	---	.00	.00	.00
20	---	---	---	---	---	---	---	---	---	.00	.00	.00
21	---	---	---	---	---	---	---	---	---	.00	.00	.00
22	---	---	---	---	---	---	---	---	---	.00	.00	.00
23	---	---	---	---	---	---	---	---	---	.01	.00	.00
24	---	---	---	---	---	---	---	---	---	.18	.00	.00
25	---	---	---	---	---	---	---	---	---	2.3	.00	.00
26	---	---	---	---	---	---	---	---	---	.98	.00	.00
27	---	---	---	---	---	---	---	---	---	1.9	.00	.00
28	---	---	---	---	---	---	---	---	---	1.6	.00	.00
29	---	---	---	---	---	---	---	---	---	.90	.00	.00
30	---	---	---	---	---	---	---	---	---	.54	.00	.00
31	---	---	---	---	---	---	---	---	---	.31	.00	---
TOTAL										21.95	9.24	.00
MEAN										.71	.30	.00
MAXIMUM										3.7	2.7	.00
MINIMUM										.00	.00	.00
INCHES										.01	.00	.00
ACRE-FEET										.44	.18	.00

Table 2.--Mean daily stream discharge, in cubic feet per second, at selected sites--Continued

SITE 3 PEACEABLE CREEK NEAR HAILEYVILLE

WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT
1	.00	.00	2.5	1.5	5.4	280	1370	5.7	33	2.3	.89	1.7
2	.00	.00	1.2	1.2	4.7	128	1180	226	36	1.8	.75	1.2
3	.00	.00	.54	.89	4.7	653	218	453	42	1.4	.62	.67
4	.00	.00	.36	.75	4.7	381	153	269	37	1.2	.50	.53
5	.00	.00	.36	1.1	4.4	119	99	110	24	1.1	.64	.48
6	.00	.00	.36	1.5	4.4	68	67	61	44	1.6	.63	.59
7	.00	.00	.37	1.2	7.1	49	59	46	3290	113	.56	.52
8	.00	.00	.42	.89	9.7	31	57	35	3460	73	.48	.41
9	.00	.00	.42	.64	9.2	25	44	23	483	27	.43	.30
10	.00	.00	.48	.75	8.3	21	34	14	169	63	.38	.25
11	.00	.00	.42	1.2	52	14	97	44	84	27	.32	.20
12	.00	.00	.42	2.2	211	13	289	30	54	7.8	.23	.15
13	.00	.00	.42	14	97	13	90	17	41	4.0	.23	.18
14	.00	.00	.42	13	51	19	50	10	35	2.5	.15	.12
15	.00	.00	.37	8.3	36	11	34	7.1	28	2.6	.13	.09
16	.00	.00	.42	7.1	22	6.7	24	9.0	21	3.3	.12	.08
17	.00	.00	.37	33	13	6.2	20	5.4	16	2.8	.10	.07
18	.00	.00	.36	119	10	7.9	17	4.0	13	9.8	.14	.06
19	.00	.00	.32	344	10	695	26	3.0	8.2	4.1	.23	.07
20	.00	.00	.32	324	13	2750	33	374	5.4	2.5	.17	.47
21	.00	.00	.27	105	16	1290	29	3030	6.1	1.5	.12	.53
22	.00	.00	.42	44	54	545	23	2610	5.1	1.1	.29	.44
23	.00	.00	.54	26	1040	614	18	615	4.4	.86	.27	.44
24	.00	.00	.48	19	559	158	16	167	4.7	.63	.50	.42
25	.00	.00	.48	15	599	76	13	81	44	.59	.87	.38
26	.00	.00	.48	27	810	74	14	50	39	.68	.97	.37
27	.00	.00	.48	58	532	908	11	74	13	8.5	1.7	.39
28	.00	.00	.48	34	536	337	7.2	290	6.3	4.9	1.1	.40
29	.00	.00	.54	19	---	147	6.6	249	3.8	2.0	.80	.42
30	.00	.00	.48	12	---	139	6.4	101	3.0	1.3	.42	.42
31	.00	.00	1.5	7.5	---	86	---	52	---	.90	.88	---
TOTAL	.00	.67	17.00	1242.72	4723.6	9664.8	4105.2	9065.2	8053.0	374.76	15.57	12.31
MEAN	.000	15.9	.55	40.1	169	312	137	292	268	12.1	.50	.41
MAXIMUM	.00	163	2.5	344	1040	2750	1370	3030	3460	113	1.7	1.7
MINIMUM	.00	.00	.27	.64	4.4	6.2	6.4	3.0	3.0	.59	.10	.06
INCHES	.00	.13	.00	.34	1.31	2.68	1.14	2.52	2.24	.10	.00	.00
ACRE-Feet	.00	943	34	2460	9370	19170	8140	17980	15970	743	.31	.24
TOTAL	37749.83	MEAN 103	MAXIMUM	MINIMUM	.00	INCHES 10.48	ACRE-Feet 74880					

Table 2.--Mean daily stream discharge, in cubic feet per second, at selected sites--Continued

SITE 3 PEACEABLE CREEK NEAR HAILEYWILLE

WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT
1	.32	16	.48	1.2	1.2	.89	2.5	47	63	.10	.00	.00
2	.27	5.7	.42	1.0	1.2	.75	1.9	426	35	.06	.00	.00
3	.15	3.1	.37	.94	1.0	.89	1.5	490	17	.04	.00	.00
4	.12	3.2	.36	.56	1.2	.89	1.1	87	11	.01	.00	.00
5	.09	2.3	.47	.54	1.2	.75	.87	33	6.0	.00	.00	.00
6	.08	1.2	.64	.64	1.2	.64	.76	17	3.8	.00	.00	.00
7	.06	.97	.64	.64	1.1	.64	.67	9.8	4.0	.00	.00	.00
8	.05	.67	.64	.64	.69	.48	.49	6.5	4.0	.00	.00	.00
9	.03	.98	.64	.72	116	.42	.42	4.2	3.3	.00	.00	.00
10	.01	.84	.64	1.1	54	.75	.41	3.1	2.8	.00	.00	.00
11	.00	.73	.75	.99	26	1.2	.36	2.2	1.4	.00	.00	.00
12	.00	.49	1.0	.77	16	1.2	.33	1.6	.64	.00	.00	.00
13	.00	.46	2.8	.75	11	1.1	.30	1.2	.42	.00	.00	.00
14	.00	.50	5.4	.82	8.9	.89	.30	.83	.30	.00	.00	.00
15	.00	.42	5.4	.94	7.5	.64	.36	53	.22	.00	.00	.00
16	.00	.48	3.7	1.1	6.2	.75	.51	388	.18	.00	.00	.00
17	.03	.57	2.0	1.2	4.7	2.2	.66	109	.16	.00	.00	.00
18	.04	.52	1.2	1.3	3.7	4.1	.71	222	.16	.00	.00	.00
19	.03	.48	.89	1.8	3.1	3.4	.72	396	.19	.00	.00	.00
20	.03	.47	.64	2.0	2.9	3.1	.68	131	2.2	.00	.00	.00
21	.04	1.2	.54	14	2.5	2.0	.61	78	4.5	.00	.00	.00
22	2.3	.68	.45	14	2.2	1.2	.59	78	2.0	.00	.00	.00
23	5.1	.62	1.3	12	1.7	1.1	.42	47	1.7	.00	.00	.00
24	3.8	.58	4.4	7.9	1.5	4.7	.37	26	1.3	.00	.00	.00
25	4.8	.62	5.1	5.4	1.5	5.4	.81	18	.65	.00	.00	.00
26	3.9	1.1	4.9	4.0	1.5	3.7	15	13	.35	.00	.00	.00
27	3.5	.91	4.5	3.1	1.2	2.5	21	8.2	.29	.00	.00	.00
28	3.0	.72	3.7	2.2	1.2	2.5	11	4.8	.49	.00	.00	.00
29	2.1	.58	2.0	2.0	1.1	2.5	6.7	11	.27	.00	.00	.00
30	7.6	.51	1.7	1.7	---	2.9	4.1	251	.15	.00	.00	.00
31	33	---	1.3	1.5	---	2.5	---	157	---	.00	.00	---
TOTAL	70.45	47.60	58.97	87.45	351.5	56.68	76.15	3120.43	167.47	.21	.00	.00
MEAN	2.27	1.59	1.90	2.82	12.1	1.83	2.54	101	5.58	.007	.00	.00
MAXIMUM	33	16	5.4	14	116	5.4	21	490	63	.10	.00	.00
MINIMUM	.00	.42	.36	.54	1.0	.42	.30	.83	.15	.00	.00	.00
INCHES	.02	.01	.02	.02	.10	.02	.02	.87	.05	.00	.00	.00
ACRE-FEET	140	94	117	173	697	112	151	6190	332	.4	.00	.00
TOTAL	4036.91	MEAN 11.0	MAXIMUM	490	MINIMUM	.00	INCHES	1.12	ACRE-FEET	8010		

Table 2.--Mean daily stream discharge, in cubic feet per second, at selected sites--Continued

SITE 3 PEACEABLE CREEK NEAR HAILEYVILLE

WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT
1	.00	1.2	.19	.48	.87	269	17	1.4	167	149	13	.54
2	.00	.76	.15	.48	.50	80	9.7	1.0	136	94	5.5	.42
3	.00	.66	.15	.54	.48	62	26	.70	107	27	3.1	.32
4	.00	.58	.15	.64	.58	462	98	.65	56	9.0	2.2	.26
5	.00	.84	.16	.75	.48	156	62	1.2	73	16	1.5	.20
6	.00	.77	.15	.75	.68	54	23	1.2	1900	8.0	1.4	.15
7	.00	.51	.13	.75	.89	30	13	.89	2480	4.0	1.5	.13
8	.00	.35	397	.54	.89	20	7.9	.89	515	4.6	1.0	.11
9	.00	.27	410	.54	1.7	16	6.2	242	124	4.6	.82	.11
10	.00	.29	65	.54	24	13	5.1	676	66	3.8	.63	.09
11	.00	.27	26	.43	14	10	4.5	126	32	2.8	.54	.08
12	.00	.25	14	.47	7.1	7.9	4.1	43	18	1.7	.49	.08
13	.00	.22	9.7	.50	3.1	6.7	3.7	21	14	.90	.43	.09
14	.00	.18	6.7	1.0	2.0	5.4	3.1	17	11	.61	.36	.16
15	.00	.15	4.4	1.2	1.4	5.1	2.4	20	31	.42	.27	.16
16	.00	.18	3.4	1.1	1.0	4.7	2.0	15	176	.32	.27	.26
17	.00	.75	2.5	.95	.82	4.4	1.8	9.8	108	.24	.64	1.5
18	.00	3.7	2.2	.68	.64	6.4	1.6	7.5	52	.20	1.6	1.1
19	.00	4.3	1.5	.64	.53	22	2.2	5.2	29	.14	1.2	.67
20	.00	3.9	1.0	.82	.44	15	2.7	7.5	22	.10	.74	.51
21	.00	4.1	.75	.89	.40	9.2	2.0	3.7	14	.08	.54	.41
22	.00	2.9	.64	1.2	.30	5.8	14	2.2	13	.06	.47	.32
23	.00	1.9	.64	1.2	.25	4.4	71	1.6	9.3	.04	.36	.24
24	.00	1.4	.54	1.5	.24	3.7	18	3.4	3.3	.01	.31	.23
25	.00	1.1	.48	.93	.24	2.8	15	19	1.9	.00	.25	.18
26	.00	.76	.42	.81	.23	2.0	7.7	10	1.2	.00	.29	.14
27	.00	.54	.36	.97	.19	1.7	5.0	8.4	1.74	.00	2.0	.20
28	1.7	.46	.36	.72	220	1.7	3.4	9.8	1.0	.09	.99	10
29	23	.35	.36	.63	---	77	2.5	108	1.4	11	.47	8.0
30	7.7	.26	.54	.56	---	74	1.7	1010	1.4	196	.65	2.5
31	3.6	---	.48	.80	---	34	---	551	---	35	.78	---
TOTAL	36.00	33.90	950.05	24.01	283.95	1465.9	436.3	2925.03	6164.24	569.71	44.30	29.16
MEAN	1.16	1.13	30.6	.77	10.1	47.3	14.5	94.4	205	18.4	1.43	.97
MAXIMUM	.23	4.3	410	1.5	220	462	1.98	1010	2480	196	13	10
MINIMUM	.00	.15	.13	.43	.19	1.7	1.6	.65	.74	.00	.25	.08
INCHES	.01	.01	.26	.01	.08	.41	.12	.81	1.71	.16	.01	.01
ACRE-FEET	71	67	1880	48	563	2910	865	5800	12230	1130	.88	58
TOTAL	12962.55	MEAN 35.5	MAXIMUM 2480	MINIMUM .00	INCHES 3.60	ACRE-FEET 25710						

Table 2.---Mean daily stream discharge, in cubic feet per second, at selected sites--Continued

SITE 3 PEACEABLE CREEK NEAR HAILEYVILLE

WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT
1	1.2	2400	597	2.5	740	75	14	2.6	1200	2.0	1.0	.89
2	.54	1190	139	4.0	540	59	11	3.0	480	1.2	1.1	2.2
3	.48	200	76	3.7	400	80	16	2.6	811	1.0	1.3	3.4
4	.48	110	50	4.4	300	38	13	1.6	620	2.0	1.1	2.5
5	.36	81	28	4.4	210	25	6.7	.84	284	2.5	.90	1.7
6	33	60	24	4.0	130	24	5.1	17	108	1.0	.74	1.5
7	40	44	29	7.1	90	29	5.4	34	69	616	.62	1.0
8	11	756	23	3.4	86	31	5.1	13	43	567	.50	.75
9	4.0	2280	14	1.7	130	32	4.7	6.7	27	74	.40	.64
10	2.2	1000	10	1.5	120	26	4.4	3.8	23	40	.35	.48
11	1.2	200	9.2	1.1	100	23	4.7	2.4	16	19	.30	.42
12	1.7	108	10	.80	88	23	4.4	211	28	13	.25	.32
13	1590	76	7.9	.60	80	65	4.0	2820	23	7.5	.23	.27
14	4340	58	8.3	.70	76	1020	6.2	3160	20	4.7	.21	.20
15	2490	44	8.3	.80	68	930	4.8	439	25	4.0	.19	.24
16	1210	41	7.9	.70	62	248	3.2	160	160	3.1	.18	.24
17	2800	30	13	.80	608	115	2.5	232	58	2.8	.15	.20
18	3470	23	8.3	1.0	198	77	2.3	196	25	2.5	.13	.18
19	1420	36	4.7	1.5	118	72	2.8	83	14	2.0	.12	.15
20	278	17	4.0	2.0	82	63	3.1	53	10	1.5	.11	.20
21	225	13	4.4	27	68	34	1.9	46	7.1	1.0	.10	.18
22	391	12	7.5	45	48	26	1.0	21	8.3	.70	.08	.13
23	351	10	4.7	230	41	19	.79	43	7.1	.60	.05	.12
24	177	10	4.7	130	46	18	.75	394	9.2	.50	.04	.09
25	112	9.7	4.0	90	32	16	.75	653	12	.45	.02	.08
26	86	13	3.7	64	85	13	.84	201	8.8	.40	.00	.06
27	63	23	3.4	52	140	10	.92	157	7.1	.90	.04	.05
28	43	11	3.1	41	111	11	.80	2930	4.4	.84	3.4	.04
29	34	8.3	3.7	32	---	11	1.1	3140	3.1	.80	2.5	.03
30	30	571	3.4	1000	---	12	1.2	538	2.0	.90	1.7	.01
31	1020	---	2.5	2200	---	23	---	1170	---	.94	1.0	---
TOTAL	20226.16	9435.0	1119.5	3957.70	4797	3248	133.45	16734.54	4113.1	1374.83	18.81	18.27
MEAN	652	315	36.1	128	171	105	4.45	540	137	44.3	.61	.61
MAXIMUM	4340	2400	597	2200	740	1020	16	3160	1200	616	3.4	3.4
MINIMUM	.36	8.3	2.5	.60	32	10	.75	.84	2.0	.40	.00	.01
INCHES	5.61	2.62	.31	1.10	1.33	.90	.04	4.65	1.14	.38	.01	.01
ACRE-Feet	40120	18710	2220	7850	9510	6440	265	33190	8160	2730	.37	.36
TOTAL	65176.36	MEAN 179	MINIMUM .00	MAXIMUM 18.09	4340	MINIMUM .00	INCHES 18.09	ACRE-Feet 129300				

Table 2.--Mean daily stream discharge, in cubic feet per second, at selected sites--Continued

SITE 4 DEER CREEK NEAR McALESTER

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT
1	.45	1.5	1.9	1.9	4.8	46	71	3.1	25	1.4	2.1	5.7
2	.50	1.5	1.9	1.4	4.9	33	44	28	25	1.4	2.0	2.9
3	.54	1.5	2.0	1.5	5.5	342	20	334	26	2.0	1.9	2.8
4	.51	1.5	2.1	2.1	4.9	55	22	57	22	1.6	2.0	2.8
5	.88	1.7	1.9	3.1	4.7	28	14	26	13	1.4	1.7	2.7
6	.62	1.9	2.0	2.8	4.7	22	8.7	15	15	190	1.4	2.7
7	.41	3.4	2.3	2.2	7.6	18	5.5	9.6	1620	340	1.4	2.6
8	.43	1.4	2.3	2.2	8.6	14	3.1	5.4	1010	17	1.3	2.6
9	.48	1.4	2.3	2.8	7.4	12	1.8	3.9	42	12	1.5	2.5
10	.55	1.9	2.2	4.9	8.3	8.2	1.6	2.6	30	44	1.3	2.5
11	.60	1.3	2.3	3.2	27	6.9	243	17	22	6.5	1.5	2.4
12	.62	1.1	3.0	4.8	92	6.5	63	16	18	4.8	1.3	2.4
13	.60	1.6	2.2	9.6	31	5.7	23	9.3	17	3.5	1.2	2.4
14	.53	7.5	2.0	4.8	22	5.1	14	4.5	15	2.4	1.3	2.3
15	.53	47	3.0	3.0	18	4.6	9.0	2.5	12	1.9	1.3	2.3
16	.54	74	2.9	6.0	11	4.4	6.3	2.3	8.2	1.7	1.2	2.3
17	.57	41	2.4	25	8.4	5.0	5.7	1.9	6.3	5.1	1.3	2.3
18	.60	11	2.2	53	6.8	24	25	2.7	4.3	2.7	1.5	2.5
19	.61	4.7	2.6	146	8.3	213	60	2.3	1.7	2.1	1.6	2.6
20	.62	3.2	2.7	69	8.6	673	26	105	1.5	1.9	1.7	6.3
21	.74	4.2	2.3	24	11	64	25	1740	1.5	1.8	1.6	9.7
22	.63	4.1	2.0	14	141	259	13	908	1.6	1.7	25	3.8
23	4.8	6.1	1.7	9.8	658	110	9.1	77	2.4	1.3	3.6	2.9
24	3.9	3.9	2.0	7.6	73	33	7.7	42	5.3	2.3	2.5	2.8
25	1.8	4.0	2.4	6.9	161	17	6.6	32	20	2.1	2.6	2.7
26	1.6	85	2.1	16	207	52	4.6	30	11	2.2	1.8	2.6
27	1.5	32	2.3	30	89	321	2.5	46	4.1	6.8	1.9	2.6
28	1.4	5.6	3.9	14	89	38	6.4	62	2.3	4.0	2.8	2.5
29	1.5	3.4	3.0	9.0	---	25	5.4	56	2.0	2.6	2.0	2.4
30	1.4	2.2	2.5	7.0	---	26	2.7	33	1.2	2.1	2.4	2.4
31	1.4	---	2.0	5.8	---	16	---	28	---	2.4	2.5	---
TOTAL	31.86	361.4	72.6	493.4	1723.5	2487.4	749.7	3702.1	2985.4	672.7	79.2	92.0
MEAN	1.03	12.0	2.34	15.9	61.6	80.2	25.0	119	99.5	21.7	2.55	3.07
MAXIMUM	4.8	85	3.9	146	658	673	243	1740	1620	340	25	9.7
MINIMUM	.41	1.1	1.7	1.4	4.7	4.4	1.6	1.9	1.2	1.3	1.2	2.3
INCHES	.03	.35	.07	.48	1.67	2.42	.73	3.60	2.90	.65	.08	.09
ACRE-Feet	63	717	144	979	3420	4930	1490	7340	5920	1330	157	182
TOTAL	13451.26	MEAN 36.9	MAXIMUM 1740	MINIMUM .41	INCHES 13.06	ACRE-Feet 26680						

Table 2.--Mean daily stream discharge, in cubic feet per second, at selected sites--Continued

SITE 4 DEER CREEK NEAR MCALESTER

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT
1	2.3	2.0	1.2	1.4	1.6	2.1	2.0	4.5	4.6	1.90	---	---
2	2.3	4.5	1.2	1.4	1.6	1.6	1.7	103	2.7	1.1	---	---
3	2.4	1.8	1.2	1.4	1.6	1.6	1.5	64	2.4	1.2	---	---
4	2.4	1.6	1.3	1.4	1.6	1.9	1.6	13	2.2	1.1	---	---
5	2.4	1.6	1.5	1.3	1.6	1.7	1.6	4.0	2.1	1.8	---	---
6	2.4	1.5	1.3	1.3	2.2	1.8	1.4	3.0	2.4	1.8	---	---
7	2.6	1.4	1.3	1.3	2.1	1.9	1.2	2.2	2.8	1.8	---	---
8	2.6	2.2	1.6	1.3	39	1.9	1.3	1.7	2.2	2.7	---	---
9	2.4	10	1.6	1.3	31	1.6	1.2	1.3	2.1	2.7	---	---
10	2.4	5.4	1.6	1.4	13	1.4	1.1	1.4	4.4	1.4	---	---
11	2.6	3.0	1.6	1.4	7.0	1.7	1.1	2.1	2.3	1.2	---	---
12	2.6	2.0	2.5	1.3	4.2	2.3	1.0	1.6	1.1	1.1	---	---
13	2.5	1.6	4.9	1.4	3.3	2.1	1.0	1.5	1.1	1.4	---	---
14	2.4	1.5	4.0	1.5	2.7	1.8	1.0	1.9	2.3	1.7	---	---
15	2.4	1.4	6.4	1.6	2.1	1.7	1.0	64	3.3	1.2	---	---
16	2.4	1.4	5.8	2.1	2.2	1.7	1.1	106	3.4	1.5	---	---
17	2.3	1.6	3.9	2.0	1.7	21	2.6	29	5.0	1.1	---	---
18	17	1.6	2.3	1.6	1.6	4.6	2.3	87	9.0	1.93	---	---
19	4.0	1.4	2.2	1.8	1.8	2.2	1.6	72	6.1	.87	---	---
20	3.0	1.4	2.3	5.6	2.4	1.9	1.4	15	20	2.6	---	---
21	5.2	16	2.3	6.1	2.3	1.7	1.3	7.5	5.9	.82	---	---
22	22	5.0	2.4	3.9	2.1	1.6	1.2	7.9	2.2	4.5	---	---
23	4.8	1.4	2.5	3.7	1.9	1.8	1.3	5.0	1.8	1.0	---	---
24	3.0	1.3	13	4.2	1.4	4.6	1.5	3.5	1.9	.89	---	---
25	2.6	1.3	4.0	3.9	1.3	2.4	2.6	2.9	1.6	.83	---	---
26	2.6	1.3	1.5	3.6	2.0	1.9	44	2.5	1.2	.90	---	---
27	5.8	1.2	1.4	3.4	2.0	1.8	5.4	2.2	1.2	18	---	---
28	31	1.2	1.5	3.1	2.0	2.5	2.3	2.0	.82	1.4	---	---
29	16	1.2	1.5	2.4	1.9	2.5	1.6	14	.71	.85	---	---
30	26	1.2	1.4	1.7	---	2.7	1.3	13	.78	.78	---	---
31	51	---	1.4	1.9	---	2.0	---	6.8	---	.75	---	---
TOTAL	256.1	98.5	82.6	71.7	141.2	84.0	91.2	645.5	99.61	60.82	---	---
MEAN	8.26	3.28	2.66	2.31	4.87	2.71	3.04	20.8	3.32	1.96	---	---
MAXIMUM	51	20	13	6.1	39	21	44	106	20	18	---	---
MINIMUM	2.3	1.2	1.2	1.3	1.3	1.4	1.0	1.3	.71	.75	---	---
INCHES	.25	.10	.08	.07	.14	.08	.09	.63	.10	.06	---	---
ACRE-FEET	508	195	164	142	280	167	181	1280	198	121	---	---

Table 2.--Mean daily stream discharge, in cubic feet per second, at selected sites--Continued

SITE 5 COAL CREEK NEAR SPIRO

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT
1	.00	.53	1.3	12	3.2	52	55	4.1	16	3.0	2.8	2.5
2	.00	.49	1.2	4.5	3.2	36	27	6.3	1640	2.8	2.5	2.3
3	.00	.49	5.0	3.3	3.4	231	18	34	87	2.3	7.1	1.8
4	.00	.49	1.8	3.2	3.4	46	16	50	43	2.1	3.7	1.6
5	.00	.49	.96	3.2	4.1	28	14	23	28	2.1	2.3	1.6
6	.00	1.0	.83	3.1	4.5	22	11	14	23	3.1	2.0	1.5
7	.02	1.5	3.8	2.9	6.8	18	9.7	9.7	204	2.7	1.9	1.6
8	.05	.90	2.4	2.4	7.2	15	9.2	6.9	38	2.5	1.3	1.3
9	.10	.30	1.1	2.3	4.5	13	9.1	5.8	22	2.4	1.9	1.2
10	.10	.30	.77	2.6	3.8	12	9.4	5.6	19	23	1.9	1.1
11	.10	.20	.64	2.8	10	10	122	119	13	3.3	9.5	1.1
12	.10	.20	.51	3.1	26	10	32	33	11	2.3	2.5	1.2
13	.05	.20	.60	4.5	31	9.1	15	16	8.6	2.0	1.9	1.2
14	.05	.40	.46	3.0	59	8.6	12	9.5	7.1	1.9	1.7	1.1
15	.07	3.4	.45	2.2	31	8.1	9.3	7.0	6.1	1.7	3.3	1.1
16	.24	6.6	.42	2.7	11	8.0	7.9	5.7	5.5	1.7	2.2	1.1
17	.20	5.0	.46	5.1	7.3	8.1	6.4	4.8	5.1	70	2.3	1.0
18	.36	1.3	.68	44	6.1	8.6	7.8	4.0	4.7	18	1.9	1.0
19	.57	1.2	.85	70	5.2	538	7.0	3.7	4.5	5.7	1.7	1.0
20	.57	.90	.90	79	5.2	382	6.0	23	4.5	3.5	2.8	1.2
21	.57	.90	.87	31	5.7	49	5.8	705	4.1	2.9	2.1	1.6
22	.57	1.5	.80	15	88	53	5.3	400	4.0	2.6	2.1	1.6
23	.57	1.4	.76	12	79	39	9.6	52	3.9	2.5	2.4	1.4
24	.53	1.1	.89	7.6	185	23	11	24	3.7	2.4	1.7	1.0
25	.57	1.2	.90	6.6	202	18	7.3	17	3.5	2.4	1.5	1.0
26	.66	11	.90	9.3	105	21	5.8	13	3.5	2.2	1.5	1.0
27	.61	4.1	.86	15	78	84	5.0	188	3.2	36	3.1	.96
28	.61	2.0	.87	6.7	129	30	5.0	579	3.0	14	3.2	.94
29	.61	1.6	1.1	4.6	---	26	5.2	117	3.0	4.7	2.0	.96
30	.57	1.5	1.4	4.3	---	50	4.6	33	2.7	3.2	1.6	.90
31	.53	---	40	3.8	---	28	---	21	---	2.8	1.6	---
TOTAL	8.98	52.19	74.48	371.8	1107.6	1884.5	467.6	2534.1	2224.7	231.8	80.5	38.86
MEAN	.29	1.74	2.40	12.0	39.6	60.8	15.6	81.7	74.2	7.48	2.60	1.30
MAXIMUM	.66	11	40	79	202	538	122	705	1640	70	9.5	2.5
MINIMUM	.00	.20	.42	2.2	3.2	8.0	4.6	3.7	2.7	1.7	1.5	.90
INCHES	.02	.11	.15	.76	2.28	3.87	.96	5.21	4.57	.48	.17	.08
ACRE-FOOT	18	104	148	737	2200	3740	927	5030	4410	460	160	.77
TOTAL	9077.11	MEAN 24.9	MAXIMUM	1640	MINIMUM	.00	INCHES 18.65	ACRE-FOOT 18000				

Table 2.--Mean daily stream discharge, in cubic feet per second, at selected sites--Continued

SITE 5 COAL CREEK NEAR SPIRO

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT
	WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980											
1	.96	2.4	1.0	1.8	2.0	1.5	8.8	4.0	2.7	.77	.35	.05
2	1.2	1.3	1.0	1.7	1.9	1.4	6.7	29	2.3	.72	.34	.19
3	1.3	1.2	.96	1.8	1.8	1.4	5.9	29	2.0	.67	.29	.20
4	1.4	1.0	.96	2.0	1.7	1.5	4.5	9.1	1.9	.62	.29	.18
5	1.6	.99	.96	1.9	1.6	2.6	3.7	5.5	1.7	.50	.28	.23
6	1.7	.96	.96	1.8	1.5	1.5	3.5	3.6	1.7	.40	.28	.22
7	1.7	.96	1.6	1.7	1.4	1.3	3.2	3.4	1.5	.52	.24	.20
8	1.7	.97	1.0	1.7	3.6	1.3	3.0	3.2	1.4	.51	.24	17
9	1.8	1.5	1.1	1.7	8.2	1.2	2.6	2.6	1.3	.45	.22	.94
10	1.7	1.4	.93	1.7	7.3	.99	2.4	2.3	1.3	.41	.22	.21
11	1.7	1.2	.93	1.7	8.4	1.1	2.4	2.2	1.3	.38	.22	.15
12	1.7	.98	2.7	1.7	6.0	2.0	2.2	2.0	1.3	.38	.22	.12
13	1.7	.83	7.2	1.7	4.6	1.9	2.1	2.0	1.1	.39	.21	.10
14	1.5	.81	3.2	1.6	4.2	1.6	2.1	1.8	1.0	.42	.29	.08
15	1.5	.93	2.7	1.6	3.8	1.2	2.1	6.0	.90	.42	.29	.07
16	1.6	.98	1.8	1.9	3.3	1.2	2.1	154	1.0	.92	.27	.05
17	1.9	.76	1.4	2.1	2.5	4.3	2.8	20	.94	.79	.27	.02
18	2.2	.82	1.1	3.0	2.3	3.2	3.0	14	1.7	.48	.24	.02
19	2.7	.86	1.1	3.9	2.4	2.4	2.5	14	24	.33	.25	.02
20	3.9	1.0	1.3	3.9	2.4	2.1	2.0	7.0	5.1	.37	.28	.02
21	4.7	14	1.3	5.3	2.2	1.9	1.7	5.4	2.9	.42	.30	.05
22	5.8	4.6	1.2	5.0	1.9	1.7	1.7	15	2.2	.46	.20	.05
23	4.7	2.4	8.0	3.6	1.9	41	2.1	10	1.8	.42	.17	.18
24	4.0	1.5	16	2.7	1.7	72	1.8	5.6	1.6	.38	.15	.17
25	3.7	1.3	5.7	2.4	1.7	15	2.2	3.8	1.4	.33	.12	.37
26	3.5	1.3	3.8	2.2	1.6	9.8	2.4	3.0	1.3	.45	.12	.20
27	3.3	1.2	3.1	2.0	1.6	7.2	2.5	2.7	1.2	.70	.09	.23
28	4.8	2.1	2.6	1.9	1.6	11	2.4	2.7	1.0	.55	.08	.58
29	3.5	1.1	2.3	2.6	1.6	43	1.8	9.5	.89	.46	.07	.24
30	27	1.0	2.0	2.4	---	34	1.6	7.5	.79	.42	.07	.17
31	17	---	1.9	2.2	---	14	---	4.0	---	.37	.07	---
TOTAL	117.46	52.35	81.80	71.5	86.7	286.29	87.8	383.9	71.22	15.41	6.73	22.31
MEAN	3.79	1.75	2.64	2.31	2.99	9.24	2.93	12.4	2.37	.50	.22	.74
MAXIMUM	27	14	16	5.3	8.4	72	8.8	154	24	.92	.35	.17
MINIMUM	.96	.76	.93	1.6	1.4	.99	1.6	1.8	.79	.33	.07	.02
INCHES	.24	.11	.17	.15	.18	.59	.18	.79	.15	.03	.01	.05
ACRE-FOOT	233	104	162	142	172	568	174	761	141	31	.13	.44
TOTAL	1283.47	MEAN 3.51	MAXIMUM 154	MINIMUM .02	INCHES 2.64	ACRE-FOOT 2550						

Table 2.--Mean daily stream discharge, in cubic feet per second, at selected sites--Continued

SITE 5 COAL CREEK NEAR SPIRO

WATER YEAR OCTOBER 1980 to SEPTEMBER 1981

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT
1	.17	.54	.61	.47	1.2	33	3.3	3.3	23	3.1	536	.84
2	.15	.54	.54	.47	.92	13	2.5	2.0	17	2.1	15	.76
3	.15	.54	.54	.47	.84	11	2.3	1.4	16	2.0	6.7	.77
4	.15	.54	.54	.41	.76	51	3.5	1.4	14	1.6	4.0	.83
5	.15	.47	.54	.41	.68	17	2.7	3.1	170	6.5	3.5	.76
6	.15	.47	.61	.41	.68	9.3	1.8	3.6	191	8.4	3.0	.76
7	.15	.47	.54	.47	.61	7.7	1.6	2.8	74	3.2	4.4	.90
8	.15	.47	33	.47	.61	7.7	1.5	1.9	24	2.4	3.8	1.0
9	.15	.47	10	.47	.76	7.2	3.2	88	13	2.3	2.7	.85
10	.15	.54	3.5	.41	17	5.0	3.1	256	8.1	1.8	1.9	.77
11	.15	.47	2.2	.35	5.1	3.6	2.3	41	5.9	1.7	1.9	.76
12	.15	.54	1.6	.35	2.3	3.2	2.2	18	20	1.5	1.7	.76
13	.17	.61	1.2	.35	2.0	2.5	1.5	18	12	1.4	1.5	1.9
14	.15	.68	1.0	.41	2.0	2.3	1.5	61	6.8	1.3	1.5	3.5
15	.17	.92	1.6	.41	1.8	3.9	1.3	19	5.1	1.1	1.5	1.7
16	.61	1.2	1.3	.41	1.7	5.4	1.4	12	123	1.1	1.6	1.2
17	20	3.9	.92	.30	1.6	3.3	1.4	17	21	1.0	1.5	.84
18	1.6	3.7	.92	.30	1.2	6.9	1.9	10	10	1.0	1.5	.68
19	1.3	1.4	1.0	.35	1.0	5.7	2.1	6.0	7.0	1.0	1.4	.61
20	.84	.84	.76	.47	.95	3.8	1.9	4.1	4.7	.92	1.2	.54
21	.76	.61	.76	.61	.93	3.2	1.4	3.2	3.0	1.0	.95	.47
22	.68	.54	.92	.61	1.3	4.1	1.5	3.0	2.3	1.6	.92	.47
23	.61	.61	.76	.54	1.0	4.0	1.8	2.6	2.2	1.5	.92	.47
24	.84	.68	.61	.54	1.0	2.9	2.1	164	2.1	1.4	.95	.46
25	.68	.54	.47	.47	.73	2.1	2.3	26	2.1	1.3	.84	.47
26	.68	.61	.47	.47	.80	2.3	1.1	21	2.1	1.3	.87	.53
27	6.2	.76	.47	.47	.84	1.6	1.1	11	1.9	1.3	2.0	.53
28	1.8	.76	.47	.41	65	1.6	1.0	86	1.8	1.2	2.0	.50
29	.84	.54	.47	.41	---	13	3.7	166	1.7	6.3	1.2	.47
30	.68	.61	.54	.47	---	8.7	14	87	2.4	9.0	.94	.47
31	.61	---	.47	.61	---	5.0	---	38	---	3.0	.91	---
TOTAL	41.04	25.57	69.33	13.77	115.31	250.9	73.0	1177.4	787.2	74.32	608.80	25.57
MEAN	1.32	.85	2.24	.44	4.12	8.09	2.43	38.0	26.2	2.40	19.6	.85
MAXIMUM	20	3.9	33	.61	65	51	14	256	191	9.0	536	3.5
MINIMUM	.15	.47	.47	.30	.61	1.6	1.0	1.4	1.7	.92	.84	.46
INCHES	.08	.05	.14	.03	.24	.52	.15	2.42	1.62	.15	1.25	.05
ACRE-FOOT	81	51	138	27	229	498	145	2340	1560	147	1210	51
TOTAL	3262.21	MEAN 8.94	MAXIMUM 536	MINIMUM .15	INCHES 6.70	ACRE-FOOT 6470						

Table 2.--Mean daily stream discharge, in cubic feet per second, at selected sites--Continued

SITE 5 COAL CREEK NEAR SPIRO

WATER YEAR OCTOBER 1981 to SEPTEMBER 1982												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT
1	.35	134	36	2.1	56	9.0	3.4	1.6	9.7	2.2	1.1	.21
2	.52	30	18	2.0	47	7.4	3.3	2.0	5.8	1.4	1.1	.22
3	.47	18	12	9.4	45	8.3	4.5	1.6	25	1.6	.92	.25
4	.47	45	8.3	9.8	26	18	3.8	1.9	121	1.3	.84	.25
5	.47	20	6.1	5.2	20	10	3.5	1.6	23	1.1	.84	.25
6	1.3	12	5.5	4.2	12	20	3.0	1.4	11	.92	.68	.25
7	1.1	7.9	6.2	3.1	10	28	2.7	1.7	7.4	51	.68	.27
8	.73	6.5	5.8	2.4	15	17	2.8	1.5	5.1	32	1.2	.30
9	.61	15	5.4	2.6	26	12	2.7	1.3	3.9	9.2	1.4	.30
10	.61	9.6	4.2	2.2	17	10	2.6	1.2	3.4	4.5	1.2	.25
11	.54	7.8	3.9	1.8	15	10	2.8	1.3	9.2	2.7	.92	.20
12	.54	6.3	3.9	1.7	24	10	2.3	9.1	8.8	1.9	.84	.20
13	13	5.2	3.7	1.7	45	8.8	2.2	342	4.8	2.0	.84	.18
14	39	4.4	4.0	1.6	45	186	2.2	83	3.2	1.4	.76	.15
15	5.2	4.5	4.2	1.7	33	50	2.1	85	23	.84	.54	.15
16	12	3.9	3.5	1.8	83	29	3.6	63	119	1.2	.54	.19
17	343	3.9	3.2	1.4	39	18	12	52	14	.76	.47	.25
18	61	3.1	2.6	1.4	23	14	3.5	20	6.6	.84	.30	.42
19	17	3.2	2.6	1.6	16	13	2.8	13	4.5	.68	.30	.25
20	8.7	2.5	2.6	1.9	14	11	3.2	7.2	3.7	.61	.35	.32
21	5.4	2.3	2.6	2.2	12	8.5	2.3	4.6	3.0	.68	.35	.35
22	4.2	2.4	3.2	35	9.9	7.0	1.9	3.6	2.6	.68	.30	.32
23	4.7	2.9	4.4	17	8.5	6.6	1.5	3.3	2.7	.61	.20	.38
24	3.5	2.3	4.3	8.2	7.5	6.1	2.1	3.6	2.0	.54	.20	.36
25	3.3	2.4	3.3	7.0	6.3	5.3	1.9	3.4	5.5	.47	.25	.26
26	7.8	2.6	3.0	5.1	8.0	4.9	2.7	3.5	5.1	.41	.21	.25
27	5.1	3.5	3.0	4.3	15	4.4	2.7	3.0	2.6	.47	.16	.25
28	3.5	2.3	2.6	4.1	12	3.9	1.8	66	2.0	.41	.22	.20
29	2.8	2.1	2.0	3.4	---	3.7	1.7	16	1.6	.61	.25	.23
30	2.3	176	1.9	860	---	3.9	2.3	7.8	1.6	1.2	.25	.25
31	98	---	2.1	281	---	4.0	---	14	---	1.1	.25	---
TOTAL	647.21	541.6	174.1	1286.9	690.2	547.8	89.9	820.2	440.8	125.33	18.46	7.71
MEAN	20.9	18.1	5.62	41.5	24.7	17.7	3.00	26.5	14.7	4.04	.60	.26
MAXIMUM	343	176	36	860	83	186	12	342	121	51	1.4	.42
MINIMUM	1.35	2.1	1.9	1.4	6.3	3.7	1.5	1.2	1.6	.41	.16	.15
INCHES	1.33	1.11	1.36	2.64	1.42	1.13	.18	1.69	.91	.26	.04	.02
ACRE-FEET	1280	1070	345	2550	1370	1090	178	1630	874	249	.37	.15
TOTAL	5390.21	MEAN 14.8	MAXIMUM 860	MINIMUM .15	INCHES 11.08	ACRE-FEET 10690						

Table 2.--Mean daily stream discharge, in cubic feet per second, at selected sites--Continued

SITE 6 FOURCHE MALINE NEAR WILBURTON

WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT
1	---	---	---	---	---	---	---	---	---	3.3	.04	.00
2	---	---	---	---	---	---	---	---	---	2.7	.04	.00
3	---	---	---	---	---	---	---	---	---	2.1	.03	.00
4	---	---	---	---	---	---	---	---	---	1.8	.03	.00
5	---	---	---	---	---	---	---	---	---	1.5	.03	.00
6	---	---	---	---	---	---	---	---	---	1.3	.02	.00
7	---	---	---	---	---	---	---	---	---	1.0	.02	.00
8	---	---	---	---	---	---	---	---	---	1.1	.02	.00
9	---	---	---	---	---	---	---	---	---	1.0	.01	.00
10	---	---	---	---	---	---	---	---	---	.90	.01	.00
11	---	---	---	---	---	---	---	---	---	.80	.01	.00
12	---	---	---	---	---	---	---	---	---	.76	.01	.00
13	---	---	---	---	---	---	---	---	---	.70	.01	.00
14	---	---	---	---	---	---	---	---	---	.64	.01	.00
15	---	---	---	---	---	---	---	---	---	.56	.00	.00
16	---	---	---	---	---	---	---	---	---	.50	.00	.00
17	---	---	---	---	---	---	---	---	---	.40	.00	.00
18	---	---	---	---	---	---	---	---	---	.30	.00	.00
19	---	---	---	---	---	---	---	---	---	.22	.00	.00
20	---	---	---	---	---	---	---	---	---	.15	.00	.00
21	---	---	---	---	---	---	---	---	---	.13	.00	.00
22	---	---	---	---	---	---	---	---	---	.12	.00	.00
23	---	---	---	---	---	---	---	---	---	.16	.00	.00
24	---	---	---	---	---	---	---	---	---	.17	.00	.00
25	---	---	---	---	---	---	---	---	---	.14	.00	.00
26	---	---	---	---	---	---	---	---	---	.12	.00	.00
27	---	---	---	---	---	---	---	---	---	.11	.00	.00
28	---	---	---	---	---	---	---	---	---	.10	.00	.00
29	---	---	---	---	---	---	---	---	---	.08	.00	.00
30	---	---	---	---	---	---	---	---	---	.06	.00	.00
31	---	---	---	---	---	---	---	---	---	.05	.00	---
TOTAL										22.97	.29	.00
MEAN										.74	.09	.00
MAXIMUM										3.3	.04	.00
MINIMUM										.05	.00	.00
INCHES										.02	.00	.00
ACRE-FEET										.46	.6	.00

Table 2.--Mean daily stream discharge, in cubic feet per second, at selected sites--Continued

SITE 6 FOURCHE MALINE NEAR WILBURTON

WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT
1	.00	.00	3.9	2.8	17	366	447	15	243	5.8	6.1	4.4
2	.00	.00	3.5	2.3	15	237	333	16	1200	4.6	6.9	3.8
3	.00	.00	5.0	2.8	14	333	170	196	713	3.7	5.7	3.4
4	.00	.00	3.9	3.0	14	213	100	200	500	3.1	4.0	2.8
5	.00	.00	3.9	3.3	13	117	81	128	402	2.7	3.0	2.6
6	.00	.00	4.0	3.1	13	79	65	76	308	3.1	2.5	2.1
7	.00	.00	4.2	3.1	16	61	53	53	1310	3.0	2.3	2.0
8	.00	.00	3.9	2.8	17	50	46	39	583	2.6	2.2	1.8
9	.00	.00	5.0	2.8	15	43	40	31	476	2.2	2.1	2.0
10	.00	.00	5.0	2.8	14	36	38	25	336	1.6	36	2.0
11	.00	.00	4.0	2.8	19	30	712	237	246	1.6	55	1.8
12	.00	.00	3.9	3.0	37	27	439	156	201	1.4	9.1	1.8
13	.00	.00	3.5	3.1	56	24	289	72	83	1.3	4.5	1.5
14	.00	.00	2.8	3.1	46	20	248	44	40	1.4	2.8	1.3
15	.00	.00	2.6	3.3	41	17	221	33	34	1.4	2.6	1.3
16	.00	.00	2.3	4.4	33	14	128	25	28	3.9	2.2	1.2
17	.00	.97	2.0	5.0	27	13	48	19	24	17	2.0	1.1
18	.00	1.3	2.2	8.3	24	12	41	15	20	5.4	1.9	1.1
19	.00	5.4	2.0	136	21	400	51	13	16	4.8	1.7	1.0
20	.00	3.5	2.2	248	20	1010	74	26	13	8.1	1.4	1.0
21	.00	2.8	2.0	113	22	479	72	774	23	2.3	1.3	.98
22	.00	3.0	1.9	66	46	420	44	847	48	1.6	1.6	.94
23	.00	3.0	2.3	49	84	398	37	491	23	1.3	1.3	.90
24	.00	3.5	2.2	39	115	301	35	348	16	1.2	1.2	.88
25	.00	6.1	2.0	32	222	251	32	241	16	1.1	1.1	.84
26	.00	9.2	1.9	32	237	181	26	202	17	.97	1.1	.80
27	.00	11	1.8	32	296	81	20	431	14	47	83	.78
28	.00	11	1.6	28	522	68	19	882	10	40	79	.76
29	.00	9.0	1.8	23	---	59	18	693	8.2	17	20	.74
30	.00	6.5	2.0	23	---	97	16	466	6.6	9.5	8.9	.70
31	.00	---	3.1	19	---	93	---	312	---	6.3	5.4	---
TOTAL	.00	77.07	92.4	901.8	2016	5530	3943	7106	6957.8	206.97	357.9	48.32
MEAN	.00	2.57	2.98	29.1	72.0	178	131	229	232	6.68	11.5	1.61
MAXIMUM	.00	.11	5.0	248	522	1010	712	882	1310	47	83	4.4
MINIMUM	.00	.00	1.6	2.3	13	12	16	13	6.6	.97	1.1	.70
INCHES	.00	.05	.06	.60	1.33	3.66	2.61	4.70	4.61	.14	.24	.03
ACRE-FOOT	.00	153	183	1790	4000	10970	7820	14090	13800	411	710	.96
TOTAL	27237.26	MEAN 74.6	MAXIMUM	1310	MINIMUM	.00	INCHES 18.03	ACRE-FOOT	54030			

Table 2.--Mean daily stream discharge, in cubic feet per second, at selected sites--Continued

SITE 6 FOURCHE MALINE NEAR WILBURTON

WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT
1	.67	35	4.4	9.6	6.9	4.0	8.1	352	12	2.7	.62	.01
2	.61	17	4.4	9.0	6.1	4.2	7.1	547	9.0	2.8	.46	.01
3	.55	12	4.2	8.4	4.4	4.7	6.6	527	7.4	2.2	.35	.01
4	.50	9.0	4.0	9.0	3.1	4.4	6.0	205	6.2	2.4	.26	.00
5	.46	7.2	4.0	7.8	2.7	4.1	5.5	104	5.4	1.9	.20	.00
6	.42	6.3	4.4	7.4	2.4	3.0	4.9	73	4.8	1.5	.16	.00
7	.34	5.0	5.0	7.0	2.2	3.0	4.6	56	4.3	1.2	.12	.00
8	.38	3.9	5.0	7.0	65	3.1	4.4	46	3.6	.94	.09	.00
9	.31	3.8	5.0	6.4	56	3.1	4.3	38	3.1	.74	.09	.00
10	.25	4.4	5.7	5.8	27	3.0	4.1	32	2.7	.60	.09	.00
11	.22	4.7	5.4	6.0	21	3.0	4.0	29	2.3	.44	.10	.00
12	.19	3.5	8.5	6.0	19	3.2	3.8	25	2.0	.33	.10	.00
13	.14	3.3	14	5.6	20	3.4	3.6	20	1.7	.27	.10	.00
14	.10	3.1	28	5.2	18	3.5	3.7	16	1.5	.22	.10	.00
15	.09	2.6	18	5.0	17	3.6	3.4	50	1.3	.19	.10	.00
16	.08	2.8	14	5.0	15	4.2	3.1	280	1.2	.16	.10	.00
17	.10	2.5	12	5.2	12	9.8	2.9	90	1.0	.10	.09	.00
18	.09	2.8	11	4.7	9.9	11	2.7	59	.90	.09	.09	.00
19	.10	2.2	8.1	4.3	9.5	11	2.5	117	100	.08	.09	.00
20	.12	3.3	7.5	4.0	9.0	7.6	2.3	62	60	.07	.08	.00
21	.14	27	8.0	5.0	8.2	6.7	2.2	68	31	.06	.08	.00
22	.24	17	12	7.1	7.4	7.6	2.1	108	14	.05	.07	.00
23	.18	13	18	6.9	6.5	8.8	2.0	78	9.8	.04	.06	.00
24	.19	8.1	42	7.2	5.3	30	1.9	50	8.2	.03	.05	.00
25	.16	5.9	29	5.0	5.3	20	2.1	35	7.0	.02	.05	.00
26	.15	4.8	21	4.4	5.4	12	112	27	6.0	1.5	.04	.00
27	.12	3.9	16	5.3	5.4	9.5	62	19	5.0	2.6	.04	.00
28	.23	4.8	14	6.2	4.4	9.2	36	15	4.3	2.5	.03	.00
29	.20	3.9	12	6.2	3.8	10	25	17	3.7	1.6	.03	.00
30	.63	4.4	11	5.7	---	10	20	25	3.5	1.1	.02	.00
31	208	---	10	6.1	---	8.8	---	18	---	.82	.02	---
TOTAL	278.33	227.2	365.6	193.5	378.6	229.5	352.9	3188	322.90	29.25	3.88	.03
MEAN	8.98	7.57	11.8	6.24	13.1	7.40	11.8	103	10.8	.94	.13	.001
MAXIMUM	208	35	42	9.6	65	30	112	547	100	2.8	.62	.01
MINIMUM	.08	2.2	4.0	4.0	2.2	3.0	1.9	15	.90	.02	.02	.00
INCHES	.18	.15	.24	.13	.25	.15	.23	2.11	.21	.02	.00	.00
ACRE-Feet	552	451	725	384	751	455	700	6320	640	.58	7.7	.06
TOTAL	5569.69	MEAN 15.2	MAXIMUM 547	MINIMUM .00	INCHES 3.69	ACRE-Feet 11050						

Table 2.--Mean daily stream discharge, in cubic feet per second, at selected sites--Continued

SITE 6 FOURCHE MALINE' NEAR WILBURTON

WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT
1	.00	1.4	4.8	1.9	7.2	289	39	5.5	96	63	1.5	.56
2	.00	1.3	4.6	1.7	7.6	121	30	4.2	75	45	1.9	.48
3	.00	1.3	4.2	1.5	9.7	82	25	2.7	100	17	1.8	.48
4	.00	1.1	3.8	1.4	9.2	211	52	2.0	65	7.4	1.6	.48
5	.00	1.1	3.5	1.2	8.1	140	46	2.3	82	4.3	1.4	.45
6	.00	.88	3.2	1.1	7.4	84	34	2.6	1120	4.0	1.0	.44
7	.00	.61	3.1	1.0	7.2	61	28	2.4	756	2.5	1.6	.41
8	.00	.60	254	.92	7.2	50	24	2.6	485	4.1	1.0	.37
9	.00	.59	197	.84	8.1	41	21	203	347	4.0	1.6	.33
10	.00	.87	38	.80	45	35	18	726	217	2.3	2.0	.30
11	.00	.89	18	.71	53	30	14	468	134	1.7	1.9	.25
12	.00	.77	12	.58	24	27	13	405	43	1.2	1.6	.19
13	.00	.90	19	.57	17	24	11	208	34	1.3	1.2	.23
14	.00	.99	25	.61	14	21	8.9	73	29	1.6	.92	.56
15	.00	1.2	25	.61	12	20	7.8	56	24	2.3	.66	.33
16	.00	1.4	13	.57	11	20	5.6	47	179	2.4	.53	.44
17	.00	2.9	8.2	.57	9.3	18	6.2	43	99	2.3	.45	.74
18	.00	2.9	7.0	.61	8.6	17	6.7	37	51	2.5	.62	.72
19	.09	4.3	5.8	.61	7.8	18	7.6	30	36	2.4	.49	.71
20	.42	6.2	4.7	.84	7.1	14	11	24	27	2.3	.30	.63
21	.82	4.4	4.0	.73	7.0	14	8.2	19	20	2.0	.23	.77
22	1.0	3.6	3.4	.55	8.8	13	35	16	15	1.8	.25	.83
23	.67	3.2	3.0	.56	9.5	13	240	13	12	1.4	.33	.71
24	.73	2.9	2.8	1.1	9.0	11	98	56	9.4	1.2	.36	.64
25	.73	3.4	2.7	27	7.6	11	46	55	7.0	.84	.38	.58
26	.73	3.1	2.7	26	6.5	10	28	54	5.2	.54	.41	.52
27	4.2	4.0	2.5	25	6.3	12	18	37	3.9	.29	.80	.72
28	1.4	4.0	2.3	24	260	14	12	32	2.7	.51	.74	.73
29	1.8	4.8	2.2	17	---	94	9.4	210	1.8	1.0	.69	.60
30	2.2	5.1	2.1	9.7	---	104	6.7	437	1.2	.75	.63	1.2
31	1.8	6.9	2.0	6.9	---	59	---	234	---	.67	.58	---
TOTAL	16.59	70.70	683.6	157.18	595.2	1678	910.1	3507.3	4077.2	184.60	29.47	16.40
MEAN	.54	2.36	22.1	5.07	21.3	54.1	30.3	113	136	5.95	.95	.55
MAXIMUM	4.2	6.2	254	.27	260	289	240	726	1120	63	2.0	1.2
MINIMUM	.00	.59	2.0	.55	6.3	10	5.6	2.0	1.2	.29	.23	.19
INCHES	.01	.05	.45	.10	.39	1.11	.60	2.32	2.70	.12	.02	.01
ACRE-FEET	.33	140	1360	312	1180	3330	1810	6960	8090	366	.58	.33
TOTAL	11926.34	MEAN 32.7	MAXIMUM	.00	MINIMUM	.00	INCHES 7.89	ACRE-FEET	23660			

Table 2.--Mean daily stream discharge, in cubic feet per second, at selected sites--Continued

SITE 7 RED OAK CREEK NEAR RED OAK

WATER YEAR OCTOBER 1977 to SEPTEMBER 1978

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT
1	---	---	---	---	---	---	---	---	---	.00	.00	.00
2	---	---	---	---	---	---	---	---	---	.00	.00	.00
3	---	---	---	---	---	---	---	---	---	.00	.00	.00
4	---	---	---	---	---	---	---	---	---	.00	.00	.00
5	---	---	---	---	---	---	---	---	---	.00	.00	.00
6	---	---	---	---	---	---	---	---	---	.00	.00	.00
7	---	---	---	---	---	---	---	---	---	.00	.00	.00
8	---	---	---	---	---	---	---	---	---	.00	.00	.00
9	---	---	---	---	---	---	---	---	---	.00	.00	.00
10	---	---	---	---	---	---	---	---	---	.00	.00	.00
11	---	---	---	---	---	---	---	---	---	.00	.00	.00
12	---	---	---	---	---	---	---	---	---	.00	.00	.00
13	---	---	---	---	---	---	---	---	---	.00	.00	.00
14	---	---	---	---	---	---	---	---	---	.00	.00	.00
15	---	---	---	---	---	---	---	---	---	.00	.00	.00
16	---	---	---	---	---	---	---	---	---	.00	.00	.00
17	---	---	---	---	---	---	---	---	---	.00	.00	.00
18	---	---	---	---	---	---	---	---	---	.00	.00	.00
19	---	---	---	---	---	---	---	---	---	.00	.00	.00
20	---	---	---	---	---	---	---	---	---	.00	.00	.00
21	---	---	---	---	---	---	---	---	---	.00	.00	.00
22	---	---	---	---	---	---	---	---	---	.00	.00	.00
23	---	---	---	---	---	---	---	---	---	.00	.00	.00
24	---	---	---	---	---	---	---	---	---	.00	.00	.00
25	---	---	---	---	---	---	---	---	---	.00	.00	.00
26	---	---	---	---	---	---	---	---	---	.00	.00	.00
27	---	---	---	---	---	---	---	---	---	.00	.00	.00
28	---	---	---	---	---	---	---	---	---	.00	.00	.00
29	---	---	---	---	---	---	---	---	---	.00	.00	.00
30	---	---	---	---	---	---	---	---	---	.00	.00	.00
31	---	---	---	---	---	---	---	---	---	.00	.00	.00
TOTAL										.00	.00	.00
MEAN										.000	.000	.000
MAXIMUM										.00	.00	.00
MINIMUM										.00	.00	.00
INCHES										.00	.00	.00
ACRE-FEET										.00	.00	.00

Table 2.--Mean daily stream discharge, in cubic feet per second, at selected sites--Continued

SITE 7 RED OAK CREEK NEAR RED OAK

WATER YEAR OCTOBER 1978 to SEPTEMBER 1979

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT
1	.00	.00	.90	38	.93	52	130	2.3	6.1	.01	.03	18
2	.00	.00	.70	15	1.5	32	35	11	437	.01	.01	2.9
3	.00	.00	1.7	8.1	3.2	120	21	107	63	.00	.00	.62
4	.00	.00	1.1	5.3	2.4	29	19	47	30	.00	.00	.12
5	.00	.00	.90	3.3	2.2	16	12	21	18	.00	.00	.04
6	.00	.00	.80	1.9	2.1	11	8.7	12	45	3.0	.00	.02
7	.00	.00	16	1.2	7.0	7.8	5.7	6.2	371	9.5	.00	.01
8	.00	.00	4.5	.98	7.1	4.9	5.0	2.6	39	1.1	.00	.00
9	.00	.00	1.0	.79	3.8	3.7	3.9	1.2	21	.22	.00	.00
10	.00	.00	.46	1.5	12	2.1	6.9	32	15	.13	.00	.00
11	.00	.00	.67	1.8	29	1.1	332	213	10	.04	.00	.00
12	.00	.00	.38	4.5	23	.97	46	45	6.1	.01	.00	.00
13	.00	.00	.32	10	12	.73	22	20	3.5	.00	.00	.00
14	.00	.00	.38	3.8	9.2	.60	16	11	1.8	.00	.00	.00
15	.00	.00	.38	.81	6.5	.56	12	5.9	.91	.00	.00	.00
16	.00	.20	.46	1.5	2.5	.55	9.3	3.2	.50	.00	.00	.00
17	.00	.40	.46	6.1	1.6	.91	7.3	1.8	.27	.00	.00	.00
18	.00	.16	.42	81	1.7	2.9	7.9	1.3	.14	.00	.00	.00
19	.00	1.1	.38	165	2.7	277	12	.83	.08	.00	.00	.00
20	.00	1.0	.56	109	3.5	206	34	37	.05	.00	.00	.00
21	.00	.80	.82	32	3.3	32	33	620	.05	.00	.00	.00
22	.00	.70	.82	19	85	45	15	710	.43	.00	.00	.00
23	.00	.70	.32	14	31	28	30	54	.18	.00	.00	.00
24	.00	.70	.46	9.8	138	15	21	22	.95	.00	.00	.00
25	.00	1.0	.56	5.2	104	8.9	13	11	1.3	.00	.00	.00
26	.00	5.7	.38	12	95	6.6	15	5.4	.46	.00	.00	.00
27	.00	3.2	.38	7.0	148	12	6.3	78	.21	26	.00	.00
28	.00	2.4	.46	4.7	185	7.5	6.2	229	.06	14	.00	.00
29	.00	1.8	.32	3.0	---	8.3	5.5	56	.03	2.5	.00	.00
30	.00	1.2	.32	2.2	---	99	3.2	24	.02	.39	.00	.00
31	.00	---	204	1.4	---	27	---	12	---	.08	31	---
TOTAL	.00	21.06	241.31	569.88	923.23	1059.12	893.9	2402.73	1072.14	56.99	31.04	21.71
MEAN	.000	.70	7.78	18.4	33.0	34.2	29.8	77.5	35.7	1.84	1.00	.72
MAXIMUM	.00	5.7	204	165	185	277	332	710	437	26	31	18
MINIMUM	.00	.00	.32	.79	.93	.55	3.2	.83	.02	.00	.00	.00
INCHES	.00	.06	.69	1.62	2.62	3.01	2.54	6.82	3.04	.16	.09	.06
ACRE-Feet	.00	.42	479	1130	1830	2100	1770	4770	2130	113	.62	.43
TOTAL	7293.11	MEAN 20.0	MAXIMUM 710	MINIMUM .00	INCHES 20.71	ACRE-Feet 14470						

Table 2.--Mean daily stream discharge, in cubic feet per second, at selected sites--Continued

SITE 7 RED OAK CREEK NEAR RED OAK

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT
1	.00	.29	.04	.05	.20	.17	3.1	79	.07	.25	.00	.00
2	.00	.15	.03	.06	.17	.17	1.5	236	.04	.17	.00	.00
3	.00	.05	.02	.10	.17	.09	7.7	64	.03	.06	.00	.00
4	.00	.03	.02	.06	.17	.07	1.6	26	.02	.02	.00	.00
5	.00	.03	.02	.08	.16	.08	.65	15	.02	.00	.00	.00
6	.00	.02	.04	.06	.17	.08	.45	9.3	.02	.00	.00	.00
7	.00	.01	.01	.03	.18	.09	.38	5.4	.02	.00	.00	.00
8	.00	.01	.01	.03	62	.10	.30	2.9	.02	.00	.00	.00
9	.00	.27	.01	.03	29	.06	.15	1.4	.01	.00	.00	.00
10	.00	.33	.00	.03	15	.06	.10	1.1	.01	.00	.00	.00
11	.00	.14	.00	.05	17	.07	.08	1.0	.00	.00	.00	.00
12	.00	.10	5.3	.04	13	.20	.06	.81	.00	.00	.00	.00
13	.00	.06	14	.04	9.8	.34	.16	.64	.00	.00	.00	.00
14	.00	.05	4.5	.04	7.5	.38	.19	.50	.00	.00	.00	.00
15	.00	.05	1.2	.04	6.1	.23	.10	62	.00	.00	.00	.00
16	.00	.03	.56	.10	4.2	.17	.06	129	.00	.00	.00	.00
17	.00	.03	.21	.17	1.8	16	.13	14	.00	.00	.00	.00
18	.00	.02	.10	.17	1.5	5.9	.22	3.5	.00	.00	.00	.00
19	.00	.01	.06	.17	1.5	1.9	.14	9.3	445	.00	.00	.00
20	.00	.01	.06	.25	1.3	.97	.09	1.0	48	.00	.00	.00
21	.00	12	.06	2.8	.87	.56	.04	13	26	.00	.00	.00
22	.00	5.0	.08	3.3	.55	.46	.04	26	14	.00	.00	.00
23	.00	1.1	12	1.2	.41	50	.03	10	10	.00	.00	.00
24	.00	.26	17	.52	.31	42	.02	1.4	6.6	.00	.00	.00
25	.00	.25	3.9	.39	.27	14	.04	.32	4.5	.00	.00	.00
26	.00	.19	1.0	.25	.21	7.5	1.2	.10	2.8	.00	.00	.00
27	.00	.13	.38	.23	.13	3.1	.68	.05	1.9	.00	.00	.00
28	.00	.09	.21	.17	.15	9.3	.21	.03	1.2	.00	.00	.00
29	.00	.06	.10	.17	.17	16	.11	.09	.82	.00	.00	.00
30	52	.04	.08	.17	---	18	.05	.83	.46	.00	.00	.00
31	14	---	.05	.19	---	7.7	---	.27	---	.00	.00	.00
TOTAL	66.00	20.81	61.05	10.99	173.99	195.75	19.58	713.94	561.54	.50	.00	19.14
MEAN	2.13	.69	1.97	.35	6.00	6.31	.65	23.0	18.7	.016	.000	.64
MAXIMUM	52	12	17	3.3	62	50	7.7	236	445	.25	.00	.13
MINIMUM	.00	.01	.00	.03	.13	.06	.02	.03	.00	.00	.00	.00
INCHES	.19	.06	.17	.03	.49	.56	.06	2.03	1.59	.00	.00	.05
ACRE-FOOT	131	41	121	22	345	388	.39	1420	1110	1.0	.00	.38
TOTAL	1843.29	MEAN 5.04	MAXIMUM 445	MINIMUM .00	INCHES 5.23	ACRE-FOOT 3660						

Table 2.--Mean daily stream discharge, in cubic feet per second, at selected sites--Continued

SITE 7 RED OAK CREEK NEAR RED OAK

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT
1	.15	.05	.03	.02	.86	36	5.9	.82	15	9.2	13	.05
2	.05	.03	.02	.02	.71	18	3.3	.82	9.6	3.0	.62	.04
3	.02	.02	.03	.02	.72	25	3.1	.25	8.9	.25	.25	.03
4	.01	.02	.02	.02	.52	79	6.6	.23	4.5	.10	.13	.02
5	.00	.02	.02	.02	.39	23	3.6	1.8	236	.07	.08	.00
6	.00	.01	.02	.02	.31	14	1.9	1.9	921	.04	.04	.00
7	.00	.01	.02	.03	.25	9.6	1.2	.87	78	.04	.06	.00
8	.00	.00	128	.04	.21	7.3	.79	.53	19	.36	.03	.00
9	.00	.00	32	.04	1.1	5.3	.82	323	8.8	.47	.01	.00
10	.00	.00	13	.04	36	3.9	.82	151	8.1	.09	.00	.00
11	.00	.00	5.9	.04	10	2.4	.76	39	2.5	.04	.00	.00
12	.00	.00	2.4	.03	3.9	1.2	.63	20	1.1	.02	.00	.00
13	.00	.00	1.1	.03	3.3	1.2	.56	12	1.91	.01	.00	.11
14	.00	.00	.46	.03	2.8	1.0	.32	11	7.3	.00	.00	.35
15	.00	.00	.32	.03	1.9	1.1	.17	6.7	.54	.00	.00	6.2
16	.00	.00	.25	.03	1.6	1.5	.13	4.2	39	.00	.00	.80
17	.21	.20	.25	.03	1.0	1.8	.10	3.5	9.4	.00	.13	.30
18	.8	.21	.25	.02	1.0	4.8	.14	2.5	1.2	.00	26	.14
19	1.0	4.5	.13	.02	.67	3.9	.38	1.0	.39	.00	3.4	.09
20	.13	.25	.10	.05	.56	2.1	.25	.55	.17	.00	.43	.06
21	.04	.05	.10	.27	.56	1.2	.21	.31	.11	.00	.17	.04
22	.02	.03	.08	.32	.56	1.0	1.6	.28	.06	.00	.08	.02
23	.02	.10	.08	.19	.56	.67	.29	.32	.04	.00	.05	.01
24	.02	.21	.06	.11	.46	.49	11	.44	.02	.00	.03	.00
25	.01	.14	.04	.10	.46	.38	3.9	16	.02	.00	.02	.00
26	.00	.08	.03	.09	.38	.32	1.0	13	.01	.00	.01	.00
27	.30	.08	.03	.08	.38	.32	.46	4.4	.00	.00	9.6	.00
28	.1	.06	.03	.06	74	.29	.32	31	.00	.00	1.1	.00
29	2.4	.05	.03	.05	---	44	.56	200	.00	14	.26	.00
30	.21	.03	.02	.06	---	23	.25	107	.00	12	.13	.00
31	.06	---	.02	.12	---	12	---	30	---	4.6	.09	---
TOTAL	73.04	46.74	184.84	2.03	145.16	325.77	79.77	1027.98	1371.67	44.29	68.59	53.80
MEAN	2.36	1.56	5.96	.065	5.18	10.5	2.66	33.2	45.7	1.43	2.21	1.79
MAXIMUM	.30	.21	128	.32	.74	.79	.29	323	921	.14	.26	.35
MINIMUM	.00	.00	.02	.02	.21	.29	.10	.23	.00	.00	.00	.00
INCHES	.21	.13	.52	.01	.41	.93	.23	2.92	3.89	.13	.19	.15
ACRE-Feet	145	.93	367	4.0	288	646	158	2040	2720	.88	136	107
TOTAL	3423.68	MEAN 9.38	MAXIMUM 921	MINIMUM .00	INCHES 9.72	ACRE-Feet 6790						

Table 2.--Mean daily stream discharge, in cubic feet per second, at selected sites--Continued

SITE 7 RED OAK CREEK NEAR RED OAK

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT
1	.00	94	30	.32	51	12	1.0	.33	14	19	.40	.00
2	.00	30	16	.32	61	8.3	.89	.45	5.9	5.6	.28	.00
3	.00	20	10	5.7	45	8.8	1.4	.36	667	3.7	.20	.00
4	.00	33	5.9	6.2	23	26	1.0	.26	441	2.8	.06	.00
5	.00	18	3.9	1.9	17	11	.67	.17	36	1.9	.03	.00
6	14	12	3.5	1.2	8.8	17	.53	.15	24	1.5	.01	.00
7	6.1	8.4	3.3	.99	5.9	17	.45	.13	16	74	.00	.00
8	1.0	7.3	2.9	.59	16	10	.42	.12	12	21	.00	.00
9	.34	10	1.7	.49	27	6.5	.46	.08	52	7.3	.00	.00
10	.34	9.4	1.2	.40	18	5.2	.46	.06	152	3.3	.00	.00
11	.24	6.8	1.0	.20	15	5.3	.46	.04	29	1.8	.00	.00
12	.32	5.3	1.0	.17	30	5.3	.50	.83	32	.93	12.00	.00
13	59	4.2	.76	.17	45	3.5	.66	913	20	.60	8.8	.00
14	66	3.9	.91	.14	35	108	.48	107	15	.49	1.6	.00
15	16	3.5	1.0	.18	24	40	.35	81	15	.46	.46	.00
16	42	2.9	.96	.21	58	25	51	23	39	.38	.21	.00
17	467	3.3	.81	.17	32	16	37	15	19	.27	.17	.00
18	57	3.0	.61	.17	19	13	6.8	9.8	13	.25	.13	.00
19	20	3.9	.48	.21	12	11	6.6	6.1	9.6	.17	.06	.00
20	12	3.9	.46	.27	8.9	8.8	4.7	3.1	7.3	.12	.05	.00
21	6.6	3.9	.46	.36	6.2	5.7	1.5	1.9	6.0	.06	.02	.00
22	6.4	3.3	.73	59	4.0	3.6	.71	1.7	4.7	.02	.01	.00
23	8.3	3.3	1.0	30	2.8	2.4	.48	2.5	3.4	.00	.00	.00
24	4.0	2.9	1.0	15	1.9	2.3	.38	4.1	2.7	.00	.00	.00
25	2.9	2.8	.83	11	6.1	2.1	.31	4.1	2.6	.00	.00	.00
26	12	2.3	.73	6.3	21	1.3	.32	2.0	3.6	.00	.00	.00
27	6.5	1.6	.67	5.2	26	1.0	.31	.80	3.4	.00	.00	.00
28	2.6	1.5	.61	3.7	20	1.0	.25	181	8.3	.00	.00	.00
29	2.2	1.6	.56	2.4	---	1.0	.52	27	8.0	.00	.00	.00
30	2.8	131	.46	728	---	1.0	.48	14	17	.83	.00	.00
31	254	---	.38	122	---	1.0	---	25	---	.77	.00	---
TOTAL	1069.64	437.0	93.82	1002.96	639.6	380.1	121.09	1507.25	1678.5	147.25	24.49	.00
MEAN	34.5	14.6	3.03	32.4	22.8	12.3	4.04	48.6	56.0	4.75	.79	.00
MAXIMUM	467	131	30	728	61	108	51	913	667	74	.12	.00
MINIMUM	.00	1.5	.38	.14	1.9	1.0	.25	.04	2.6	.00	.00	.00
INCHES	3.04	1.24	.27	2.85	1.82	1.08	.34	4.28	4.77	.42	.07	.00
ACRE-FEET	2120	867	186	1990	1270	754	240	2990	3330	292	.49	.00
TOTAL	7101.70	MEAN 19.5	MAXIMUM 913	MINIMUM .00	INCHES 20.17	ACRE-FEET 14090						

Table 2.--Mean daily stream discharge, in cubic feet per second, at selected sites--Continued

SITE 8 CASTON CREEK AT WISIER

WATER YEAR OCTOBER 1978 to SEPTEMBER 1979												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT
1	.00	.00	6.0	102	43	868	781	35	279	2.2	15	71
2	.00	.00	5.2	46	38	534	398	44	494	2.1	7.6	16
3	.00	.00	13	30	40	967	238	192	508	1.6	5.1	9.0
4	.00	.00	8.9	34	40	444	196	356	373	1.5	3.9	5.7
5	.00	.00	7.1	40	34	269	155	218	263	3.9	3.2	4.2
6	.00	.00	6.1	40	34	187	126	143	137	83	2.7	3.3
7	.00	.00	21	34	41	147	99	103	749	13	2.5	3.0
8	.00	.00	18	27	37	119	96	72	373	6.9	2.2	2.4
9	.00	.00	14	23	36	85	103	52	197	4.8	2.0	1.9
10	.00	.00	17	25	35	72	92	49	126	10	1.8	1.7
11	.00	.00	18	26	93	63	761	637	83	6.2	1.9	1.6
12	.00	.00	17	32	153	56	590	478	56	4.6	1.7	1.6
13	.00	.00	14	35	151	51	325	238	40	3.6	1.7	1.2
14	.00	.00	12	30	140	43	188	137	29	3.0	1.8	1.2
15	.00	2.5	9.9	24	117	38	143	86	22	2.6	2.3	1.1
16	.00	71	8.4	28	77	35	111	60	17	2.4	2.1	1.0
17	.00	88	6.6	35	56	36	84	42	13	3.7	1.9	1.1
18	.00	24	5.6	415	43	36	75	32	11	3.1	1.8	1.4
19	.00	14	4.6	456	33	67	79	25	7.8	3.5	1.5	1.7
20	.00	12	4.8	494	32	595	96	20	6.0	2.6	1.1	2.8
21	.00	9.6	7.6	281	52	290	166	1900	4.9	2.0	.80	4.2
22	.00	8.0	6.9	158	800	258	106	1630	4.7	1.8	1.2	2.7
23	.00	7.0	9.2	123	551	250	201	830	4.4	1.7	1.2	2.7
24	.00	7.3	16	103	644	167	204	695	4.0	1.4	.96	2.5
25	.00	11	14	72	841	117	129	637	4.0	1.3	.96	2.3
26	.00	51	13	77	533	92	90	583	3.7	1.4	.96	1.9
27	.00	27	11	92	628	105	65	790	3.2	91	40	1.5
28	.00	17	10	86	1310	93	56	923	2.9	74	8.3	1.3
29	.00	13	10	69	---	133	48	694	2.6	27	4.2	1.5
30	.00	9.0	11	62	---	786	41	532	2.1	13	2.7	1.5
31	.00	---	164	53	---	507	---	429	---	11	69	---
TOTAL	.00	371.40	489.9	3152	6632	7510	5842	12662	3820.3	389.9	194.08	155.0
MEAN	.00	12.4	15.8	102	237	242	195	408	127	12.6	6.26	5.17
MAXIMUM	.00	88	164	494	1310	967	781	1900	749	91	.69	.71
MINIMUM	.00	.00	4.6	23	32	35	41	20	2.1	1.3	.80	1.0
INCHES	.00	.19	.25	1.61	3.38	3.83	2.98	6.46	1.95	.20	.10	.08
ACRE-FOOT	.00	737	972	6250	13150	14900	11590	25110	7580	773	385	307
TOTAL	41218.58	MEAN	113	MAXIMUM	1900	MINIMUM	.00	INCHES	21.03	ACRE-FOOT	81740	

Table 2.--Mean daily stream discharge, in cubic feet per second, at selected sites--Continued

SITE 8 CASTON CREEK AT WISTER

DAY	WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980												AUG	SEPT
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY				
1	1.5	36	4.3	19	12	10	134	275	15	2.3			.00	.00
2	1.1	24	3.2	18	11	8.8	98	1010	11	1.8			.00	.00
3	.96	19	3.4	18	11	8.0	78	635	9.6	1.3			.00	.00
4	.91	16	3.3	16	11	8.0	59	378	8.1	1.0			.00	.00
5	1.1	14	3.2	14	10	7.8	47	158	6.7	.86			.00	.00
6	1.4	12	3.0	12	9.9	7.2	41	96	5.0	.72			.00	.00
7	1.5	11	2.6	12	9.0	7.2	36	63	4.0	.61			.00	.00
8	1.5	10	2.4	11	125	6.9	33	45	3.0	.55			.00	.00
9	1.2	9.0	2.1	9.4	153	6.2	28	33	2.3	.44			.00	.00
10	1.3	7.7	2.0	9.3	102	6.4	22	25	1.6	.37			.00	.00
11	1.0	6.8	2.2	9.1	101	6.4	20	21	1.4	.32			.00	.00
12	1.3	5.1	5.5	7.5	98	8.7	18	17	1.5	.29			.00	.00
13	2.3	5.6	33	7.0	85	9.1	33	15	1.6	.24			.00	.00
14	3.3	4.6	42	6.7	68	7.3	36	12	1.3	.15			.00	.00
15			37	6.7	60	6.2	30	46	1.1	.10			.00	.00
16	3.6	4.2	28	9.4	47	6.0	24	679	1.1	.07			.00	.00
17	4.2	3.8	20	9.6	36	29	26	238	1.5	.03			.00	.00
18	5.0	3.6	16	8.6	32	20	26	137	2.1	.00			.00	.00
19	5.4	3.6	14	7.7	30	16	22	100	643	.00			.00	.00
20	5.9	4.6	14	9.2	28	15	19	60	360	.00			.00	.00
21	6.9	28	13	14	25	13	17	70	214	.00			.00	.00
22	12	32	13	20	21	12	15	160	160	.00			.00	.00
23	10	20	78	19	19	151	14	145	65	.00			.00	.00
24	10	14	216	17	17	342	13	83	30	.00			.00	.00
25	10	11	106	17	15	167	14	53	17	.00			.00	.00
26	12	9.2	68	16	13	114	18	37	10	.00			.00	.00
27	12	7.3	50	14	12	80	16	26	7.0	.00			.00	.00
28	13	5.8	38	13	12	95	14	20	4.9	.00			.00	.00
29	13	5.0	31	13	11	211	13	29	3.6	.00			.00	.00
30	33	4.2	26	13	---	344	11	32	2.8	.00			.00	.00
31	114	---	23	14	---	177	---	22	---	.00			.00	.00
TOTAL	291.07	343.2	903.2	390.2	1183.9	1906.2	975	4720	1595.2	11.15			23.45	.00
MEAN	9.39	11.4	29.1	12.6	40.8	61.5	32.5	152	53.2	.36			.76	.00
MAXIMUM	114	36	216	20	153	344	134	1010	643	2.3			3.9	.00
MINIMUM	.70	3.6	2.0	6.7	9.0	6.0	11	12	1.1	.00			.00	.00
INCHES	.15	.18	.46	.20	.60	.97	.50	2.41	.81	.01			.01	.00
ACRE- FEET	577	681	1790	774	2350	3780	1930	9360	3160	.22			.47	.00
TOTAL	12342.57	MEAN 33.7	MAXIMUM	1010	MINIMUM	.00	INCHES 6.30	ACRE- FEET	24480					

Table 2.--Mean daily stream discharge, in cubic feet per second, at selected sites--Continued

SITE 8 CASTON CREEK AT WISLER

DAY	WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981												SEPT
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG		
1	.00	2.5	2.0	8.5	10	195	20	138	136	289	14	1.9	
2	.00	2.7	2.2	30	9.1	109	19	97	105	112	9.4	1.6	
3	.00	2.0	1.7	6.8	9.3	82	18	60	95	35	6.8	1.5	
4	.00	2.0	1.7	3.9	8.5	326	20	46	82	22	5.2	1.4	
5	.00	1.9	1.6	2.9	7.7	160	19	119	780	21	4.2	1.1	
6	.00	2.2	1.6	3.0	7.3	105	16	160	2620	22	3.4	.98	
7	.00	1.9	1.6	3.5	6.8	75	14	116	806	40	11	.82	
8	.00	2.2	149	2.9	7.1	64	13	84	634	39	10	.78	
9	.00	2.2	111	2.6	15	53	22	1360	570	23	5.5	.66	
10	.00	3.2	55	2.4	277	43	23	1040	391	16	4.0	.57	
11	.00	2.9	38	2.4	111	36	20	696	232	13	3.2	.51	
12	.00	2.7	33	2.2	68	31	17	594	254	9.9	2.8	.48	
13	.00	3.0	25	2.1	58	27	15	494	192	8.2	2.4	.58	
14	.00	3.5	19	2.1	46	24	13	520	151	6.9	1.9	.65	
15	.00	4.0	17	1.9	38	25	12	301	99	5.2	1.5	1.3	
16	.00	4.6	15	1.9	33	24	11	190	187	4.1	1.3	1.3	
17	52	6.9	13	1.8	28	20	9.6	107	138	3.3	1.6	1.1	
18	6.9	5.9	11	1.8	25	83	9.0	78	82	2.7	16	.87	
19	1.4	4.0	10	1.9	23	77	8.3	48	56	2.0	23	.67	
20	.67	4.2	8.5	2.5	20	57	13	36	39	1.5	8.4	.52	
21	.56	3.2	7.3	4.0	19	46	13	27	26	1.4	4.7	.42	
22	.50	2.9	6.4	3.8	18	39	13	22	19	1.4	3.5	.35	
23	.43	3.0	6.2	3.1	16	32	147	18	15	1.3	2.7	.29	
24	.67	3.0	5.7	2.9	15	27	85	117	12	1.2	2.1	.26	
25	.67	2.6	5.5	2.6	13	24	49	105	10	.94	1.6	.23	
26	.57	2.5	5.2	2.5	13	20	32	111	8.6	.78	1.3	.20	
27	87	2.4	4.9	2.4	13	19	23	65	7.2	.67	6.2	.18	
28	16	2.4	4.7	2.3	168	18	19	107	5.9	.75	8.3	.18	
29	5.0	2.2	4.4	2.3	---	24	38	452	4.9	25	5.0	.15	
30	3.0	2.0	4.1	2.3	---	28	49	375	4.4	28	3.4	.12	
31	2.5	---	4.1	3.2	---	25	---	232	---	14	2.5	---	
TOTAL	177.87	90.7	575.4	118.6	1082.8	1918	779.9	7915	7762.0	751.24	176.9	21.67	
MEAN	5.74	3.02	18.6	3.83	38.7	61.9	26.0	255	259	24.2	5.71	1.72	
MAXIMUM	.87	6.9	149	30	277	326	147	1360	2620	289	23	1.9	
MINIMUM	.00	1.9	1.6	1.8	6.8	18	8.3	18	4.4	.67	1.3	.12	
INCHES	.09	.05	.29	.06	.55	.98	.40	4.04	3.96	.38	.09	.01	
ACRE- FEET	353	180	1140	235	2150	3800	1550	15700	15392	1490	351	.43	
TOTAL	21370.08	MEAN 58.5	MAXIMUM		MINIMUM	.00	INCHES 10.90	ACRE- FEET	42380				

Table 2.--Mean daily stream discharge, in cubic feet per second, at selected sites--Continued

SITE 8 CASTON CREEK AT WISIER

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT
1	.09	281	218	7.0	900	91	13	6.4	120	2.5	.32	.16
2	.06	179	125	7.4	500	78	13	6.6	73	2.0	.32	.11
3	.04	126	85	50	350	72	12	6.1	1260	1.5	.27	.05
4	.04	97	58	42	130	116	11	5.7	2160	1.1	.21	.02
5	.02	71	43	31	120	88	10	5.2	666	.88	.19	.00
6	.16	52	37	25	100	87	8.8	4.6	566	.71	.18	.00
7	.18	40	33	20	90	83	7.7	4.6	438	117	.16	.00
8	.20	33	29	18	80	72	7.0	4.4	353	46	.24	.00
9	.18	29	25	17	90	62	6.6	3.6	263	15	.25	.00
10	.26	26	22	16	78	57	6.0	3.3	784	9.1	.19	.00
11	.24	23	20	15	75	54	5.9	3.0	204	6.5	.16	.00
12	.29	21	18	14	85	50	5.7	2.9	230	4.8	28	.00
13	.73	19	17	13	70	46	5.7	2420	123	3.9	2.7	.00
14	26	17	17	12	60	391	5.3	1890	63	3.2	.56	.00
15	19	16	16	12	56	281	5.2	1400	55	2.7	.37	.00
16	24	15	14	11	54	191	4.6	500	159	2.3	.27	.00
17	2340	14	13	10	50	138	162	310	63	2.0	.22	.00
18	780	13	11	9.6	45	106	26	160	38	1.7	.19	.00
19	609	11	10	9.4	40	85	26	120	26	1.5	.18	.00
20	440	11	9.7	9.2	35	69	20	100	19	.71	.16	.00
21	184	8.9	9.8	52	30	53	14	100	15	.37	.13	.00
22	198	8.5	10	94	29	42	10	170	13	.30	.14	.00
23	160	8.2	10	50	28	35	8.6	140	9.6	.26	.10	.00
24	78	8.1	9.2	35	28	32	8.0	160	7.7	.20	.06	.00
25	61	8.1	8.3	25	40	28	7.4	100	7.9	.19	.02	.00
26	65	7.5	8.0	21	88	23	7.4	70	7.1	.18	.02	.00
27	48	6.7	8.1	19	112	21	6.9	48	5.6	.19	.33	.00
28	38	6.6	7.5	18	110	18	6.6	555	4.4	.21	.38	.00
29	32	6.7	7.2	30	---	17	6.9	279	3.6	.24	.19	.00
30	28	317	6.6	312	---	16	6.9	132	3.1	.36	.13	.00
31	38	---	6.8	1900	---	15	---	148	---	.38	.24	---
TOTAL	5170.49	1480.3	912.2	2904.6	3473	2517	444.2	8858.4	7740	227.98	36.88	.34
MEAN	167	49.3	29.4	93.7	124	81.2	14.8	286	258	7.35	1.19	.011
MAXIMUM	2340	317	218	1900	900	391	162	2420	2160	117	.28	.16
MINIMUM	.02	6.6	6.6	7.0	28	15	4.6	2.9	3.1	.18	.02	.00
INCHES	2.64	.76	.47	1.48	1.77	1.28	.23	4.52	3.95	.12	.02	.00
ACRE- FEET	10253	2940	1810	5760	6890	4990	881	17570	15348	452	.73	.7
TOTAL	33765.39	MEAN 92.5	MAXIMUM	2420	MINIMUM	.00	INCHES 17.23	ACRE- FEET	66960			

Table 2.--Mean daily stream discharge, in cubic feet per second, at selected sites--Continued

SITE 9 MORRIS CREEK NEAR HOWE

DAY	WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979												JULY	AUG	SEPT
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE						
1	.00	.00	3.4	44	13	183	984	16	25	.93	3.2	17			
2	.00	.00	3.0	22	12	127	195	17	64	.82	1.2	6.2			
3	.00	.00	3.2	15	12	144	96	101	68	.66	1.4	3.9			
4	.00	.00	2.6	13	11	80	70	209	41	.41	1.5	3.0			
5	.00	.00	2.2	12	10	53	50	124	29	.14	.79	2.1			
6	.00	.00	2.6	12	9.4	40	38	70	23	.91	.60	7.1			
7	.00	.00	36	8.3	10	33	30	43	506	.62	.46	6.3			
8	.00	.00	18	9.5	9.4	27	29	29	95	.41	.55	3.4			
9	.00	.00	12	8.6	7.9	25	32	21	51	.27	.36	3.0			
10	.00	.00	9.1	8.4	7.2	19	27	17	37	.16	.13	2.2			
11	.00	.00	7.9	6.6	13	16	228	189	27	.10	.37	1.9			
12	.00	.00	6.7	5.9	30	15	114	137	21	.00	.42	1.6			
13	.00	.00	5.9	5.3	31	13	60	57	15	.00	.21	1.4			
14	.00	.00	5.2	5.1	25	11	44	32	12	.00	.42	.99			
15	.00	2.1	4.8	4.8	21	10	34	21	9.5	.00	.91	.84			
16	.00	43	4.2	5.4	16	8.9	29	14	7.8	.00	.77	.67			
17	.00	28	3.7	5.9	14	7.9	25	10	6.4	1.2	.64	.55			
18	.00	8.8	3.4	8.1	13	7.1	23	7.0	5.4	1.6	.56	.41			
19	.00	5.4	3.2	47	12	11	24	4.9	4.6	.60	.39	.40			
20	.00	4.2	2.8	92	11	238	21	3.9	4.3	.00	.20	1.1			
21	.00	3.3	2.5	73	11	62	24	894	3.9	.00	.79	7.7			
22	.00	2.9	2.2	43	340	55	20	459	3.8	.00	1.2	2.8			
23	.00	2.5	2.0	34	244	56	136	121	3.6	.00	.58	2.3			
24	.00	2.3	2.3	26	141	30	214	58	3.6	.00	.14	1.2			
25	.00	2.1	2.0	22	185	20	72	34	3.3	.00	.00	1.2			
26	.00	18	1.7	25	138	15	41	24	2.9	.00	.00	1.3			
27	.00	8.5	1.4	29	167	14	33	192	2.1	1.2	2.8	.87			
28	.00	6.4	1.3	23	364	12	27	116	1.9	16	43	.78			
29	.00	5.5	1.3	19	---	11	23	82	1.5	5.4	6.6	.60			
30	.00	4.3	1.7	17	---	347	19	47	1.1	2.9	3.0	.63			
31	.00	---	99	15	---	99	---	32	---	2.3	14	---			
TOTAL	.00	147.30	257.3	664.9	1877.9	1789.9	2762	3181.8	1079.7	36.63	87.19	83.44			
MEAN	.000	4.91	8.30	21.4	67.1	57.7	92.1	103	36.0	1.18	2.81	2.78			
MAXIMUM	.00	43	99	92	364	347	984	894	506	16	43	17			
MINIMUM	.00	.00	1.3	4.8	7.2	7.1	19	3.9	1.1	.00	.00	.40			
INCHES	.00	.28	.49	1.27	3.60	3.43	5.30	6.10	2.07	.07	.17	.16			
ACRE- FEET	.00	292	510	1320	3720	3550	5480	6310	2140	.73	173	166			
TOTAL	11968.06	MEAN 32.8	MAXIMUM 984	MINIMUM .00	INCHES 22.95	ACRE- FEET 23740									

Table 2.--Mean daily stream discharge, in cubic feet per second, at selected sites--Continued

SITE 9 MORRIS CREEK NEAR HOWE

DAY	WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT
1	.40	6.3	1.2	5.1	5.0	3.6	15	57	6.2	.00	.00	.00
2	.30	3.4	1.1	4.7	4.7	3.6	13	370	5.0	.00	.00	.00
3	.20	2.2	.99	4.8	4.7	3.6	20	124	4.4	.00	.00	.00
4	.10	1.4	.94	5.4	4.2	3.4	18	44	3.8	.00	.00	.00
5	.05	.99	.86	6.3	4.1	3.1	15	27	3.4	.00	.00	.00
6	.20	.99	.74	5.9	3.9	2.9	13	19	3.2	.00	.00	.00
7	.10	.99	.65	5.3	3.9	2.5	12	15	3.0	.00	.00	.00
8	.10	.99	.37	4.9	24	1.9	11	12	2.6	.00	.00	.00
9	.05	1.9	.48	4.6	23	1.9	9.3	11	2.6	.00	.00	.00
10	.05	1.9	.40	4.2	17	1.9	7.9	8.2	2.2	.00	.00	.00
11	.01	1.4	.36	4.2	17	1.7	7.2	6.9	2.2	.00	.00	.00
12	.01	1.2	1.0	4.0	18	2.4	6.9	5.8	1.9	.00	.00	.00
13	.01	1.2	4.7	3.8	18	2.8	51	4.9	1.6	.00	.00	.00
14	.00	.84	3.8	3.9	17	2.0	61	4.3	1.4	.00	.00	.00
15	.01	.84	5.0	3.6	16	2.0	34	5.7	1.2	.00	.00	.00
16	.01	.84	4.3	4.4	14	2.2	23	68	.99	.00	.00	.00
17	.02	.84	3.8	4.0	12	8.6	20	21	1.6	.00	.00	.00
18	.10	.84	3.8	3.6	11	9.9	18	22	1.9	.00	.00	.00
19	.84	.84	3.2	3.5	10	6.0	15	54	3.0	.00	.00	.00
20	.10	.71	3.0	3.5	9.3	4.6	13	22	3.0	.00	.00	.00
21	.01	2.6	2.6	5.1	7.9	4.0	11	17	2.2	.00	.00	.00
22	.10	1.3	3.3	6.2	6.8	3.6	10	33	1.4	.00	.00	.00
23	.10	1.3	45	6.9	6.2	16	9.0	27	1.2	.00	.00	.00
24	.20	1.6	54	7.5	5.7	23	7.9	19	.84	.00	.00	.00
25	.20	1.6	22	7.4	5.3	16	7.8	14	.40	.00	.00	.00
26	.10	2.3	14	6.8	4.4	13	8.2	11	.20	.00	.00	.00
27	.05	1.5	11	6.2	4.5	11	8.1	9.3	.10	.00	.00	.00
28	.10	1.3	9.3	5.7	4.3	13	6.5	7.4	.01	.00	.00	.00
29	.05	1.4	7.7	5.6	3.8	18	5.7	7.9	.00	.00	.00	.00
30	3.0	1.2	6.5	5.6	3.8	23	4.9	11	.00	.00	.00	.00
31	15	---	5.8	5.5	---	18	---	8.4	---	.00	.00	---
TOTAL	21.57	47.41	221.89	158.2	285.7	229.2	462.4	1066.8	61.54	.00	.00	.00
MEAN	.70	1.58	7.16	5.10	9.85	7.39	15.4	34.4	2.05	.00	.00	.00
MAXIMUM	15	6.3	54	7.5	24	23	61	370	6.2	.00	.00	.00
MINIMUM	.00	.71	.36	3.5	3.8	1.7	4.9	4.3	.00	.00	.00	.00
INCHES	.04	.09	.43	.30	.55	.44	.89	2.05	.12	.00	.00	.00
ACRE-Feet	43	94	440	314	567	455	917	2120	122	.00	.00	.00
TOTAL	2554.71	MEAN 6.98	MAXIMUM 370	MINIMUM .00	INCHES 4.90	ACRE-Feet 5070						

Table 2.--Mean daily stream discharge, in cubic feet per second, at selected sites--Continued

SITE 9 MORRIS CREEK NEAR HOWE

WATER YEAR OCTOBER 1980 to SEPTEMBER 1981

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT
1	.00	2.6	1.2	1.9	4.1	81	11	17	56	66	3.9	1.2
2	.00	1.4	.47	1.4	10	39	8.8	14	44	37	4.4	.99
3	.00	.99	.48	1.6	6.7	29	7.6	10	72	12	3.9	.84
4	.00	.84	.12	1.4	5.6	73	7.1	8.0	103	6.0	2.2	.71
5	.00	.84	.41	1.4	5.0	39	5.3	8.9	339	4.4	1.6	.60
6	.00	.71	.33	1.4	4.7	28	4.7	16	692	3.9	1.2	.60
7	.00	.40	.40	1.4	4.4	22	4.1	16	196	4.7	4.5	.40
8	.00	.58	74	1.2	4.1	19	4.1	13	81	7.1	8.5	.40
9	.00	.40	49	.99	5.6	16	3.8	214	46	5.0	5.0	.20
10	.00	.20	22	.99	175	14	3.5	324	31	3.6	4.1	.10
11	.00	.10	16	.71	42	12	3.4	89	23	3.4	3.4	.05
12	.00	.04	11	.60	27	11	3.3	45	19	3.0	2.6	.02
13	.00	.00	11	.71	21	10	3.1	35	16	3.4	2.2	.23
14	.00	.00	9.5	.71	18	9.1	3.2	90	13	3.0	1.6	2.5
15	.00	.00	8.0	.71	16	9.3	2.8	42	11	2.6	1.2	.60
16	.00	.00	7.1	.71	14	9.9	3.0	29	28	2.2	.84	.32
17	.50	.59	6.3	.60	13	8.4	2.6	24	19	1.9	2.5	.26
18	8.9	1.6	5.6	.60	12	61	2.0	20	12	1.6	42	.31
19	3.4	2.3	5.0	.60	11	33	2.4	17	9.5	1.2	19	.32
20	1.2	3.0	4.1	.71	10	24	2.7	14	6.9	.80	11	.16
21	.71	2.6	3.9	.99	9.3	19	2.0	12	5.1	.60	6.3	.35
22	.40	1.9	3.9	.99	8.4	17	3.0	10	4.1	.60	4.1	.24
23	.20	2.2	3.6	.71	7.5	14	14	8.9	3.6	.40	3.0	.34
24	.09	1.9	3.4	.60	7.0	12	11	210	3.2	.20	1.6	.06
25	.04	1.2	3.2	.60	6.3	11	7.1	81	2.6	.10	1.2	.04
26	.00	.99	3.2	.40	6.1	9.0	5.3	74	2.2	.05	1.0	.00
27	32	.99	3.2	.40	5.7	8.2	4.4	40	1.6	.05	3.6	.04
28	16	.99	2.6	.60	96	7.5	4.4	28	1.2	.02	5.0	.04
29	7.5	.84	2.6	.40	---	15	4.4	56	.99	2.2	3.4	.04
30	4.7	.71	2.2	.40	---	18	10	120	.84	1.9	2.6	.00
31	3.4	---	1.9	.60	---	13	---	117	---	1.9	1.6	---
TOTAL	79.04	30.91	267.71	27.03	555.5	691.4	154.1	1802.8	1842.83	180.82	199.54	11.96
MEAN	2.55	1.03	8.64	.87	19.8	22.3	5.14	58.2	61.4	5.83	6.44	.40
MAXIMUM	32	3.0	74	1.9	175	81	14	324	692	66	45	2.5
MINIMUM	.00	.00	.12	.40	4.1	7.5	2.0	8.0	.84	.02	.84	.00
INCHES	.15	.06	.51	.05	1.07	1.33	.30	3.46	3.53	.35	.38	.02
ACRE- FEET	157	61	531	54	1100	1370	306	3580	3660	359	396	.24
TOTAL	5843.64	MEAN 16.0	MAXIMUM 692	MINIMUM .00	INCHES 11.20	ACRE- FEET 11590						

Table 2.--Mean daily stream discharge, in cubic feet per second, at selected sites--Continued

SITE 10 SUGARLOAF CREEK NEAR MONROE

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT
1	.00	.00	3.8	79	20	478	2820	36	80	3.8	21	78
2	.00	.00	2.7	40	18	296	553	42	961	2.9	13	20
3	.00	.00	1.4	25	19	362	232	218	385	2.5	10	11
4	.00	.00	3.4	18	18	189	180	458	185	2.2	8.9	8.7
5	.00	.00	4.1	14	18	134	129	245	118	1.9	7.0	7.3
6	.00	.00	3.4	11	18	103	97	139	90	4.6	6.0	11
7	.00	.00	38	9.6	20	84	78	91	1540	2.3	5.1	12
8	.00	.00	35	8.8	19	67	74	62	248	1.8	4.6	6.3
9	.00	.00	19	8.0	15	56	80	46	129	1.5	4.1	5.4
10	.00	.00	13	9.8	16	47	75	40	91	1.2	3.7	4.8
11	.00	.00	9.0	10	38	41	956	384	64	1.2	11	4.5
12	.00	.00	7.7	11	179	37	320	305	47	.98	5.4	4.0
13	.00	.00	6.8	12	143	33	174	136	38	1.1	3.9	3.9
14	.00	.00	6.0	10	117	28	117	85	29	.94	3.2	3.2
15	.00	3.6	5.3	8.8	89	24	88	59	23	1.0	2.9	2.6
16	.00	5.8	4.9	8.4	56	22	67	44	19	2.8	3.7	2.3
17	.00	5.7	4.2	12	45	20	54	34	16	166	3.9	2.2
18	.00	3.4	3.8	18	39	19	48	27	14	55	2.8	2.0
19	.00	2.2	3.4	150	34	105	51	22	11	7.8	2.0	2.0
20	.00	1.4	3.6	254	32	1260	47	23	10	5.8	1.7	2.5
21	.00	1.2	4.1	130	30	238	95	3600	8.9	4.4	1.5	4.9
22	.00	1.2	4.6	35	1050	248	58	1580	8.4	3.4	1.4	3.2
23	.00	1.1	4.6	76	912	216	466	413	7.3	2.7	1.4	2.4
24	.00	.52	3.4	49	450	133	411	190	6.7	2.5	1.2	2.3
25	.00	.07	2.5	41	541	96	181	112	6.4	2.2	1.0	1.9
26	.00	15	2.1	60	379	77	109	87	6.0	2.1	.95	1.6
27	.00	18	1.9	70	546	102	78	1770	5.1	342	2.5	1.3
28	.00	5.9	1.9	43	1320	81	64	479	4.5	195	60	1.2
29	.00	4.1	1.9	35	---	76	53	291	5.2	46	10	1.1
30	.00	4.0	2.0	32	---	1190	42	161	3.9	21	5.0	.94
31	.00	---	120	25	---	310	---	105	---	15	110	---
TOTAL	.00	73.19	327.5	1313.4	6181	6172	7797	11284	4160.4	903.62	318.85	214.54
MEAN	.00	2.44	10.6	42.4	221	199	260	364	139	29.1	10.3	7.15
MAXIMUM	.00	18	120	254	1320	1260	2820	3600	1540	342	110	78
MINIMUM	.00	.00	1.4	8.0	15	19	42	22	3.9	.94	.95	.78
INCHES	.00	.05	.23	.91	4.29	4.28	5.41	7.83	2.89	.63	.22	.15
ACRE- FEET	.00	145	650	2610	12260	12240	15470	22380	8250	1790	632	426
TOTAL	38745.50	MEAN 106	MINIMUM .00	MAXIMUM 3600	3600	MINIMUM .00	INCHES 26.89	ACRE- FEET 76850				

Table 2.--Mean daily stream discharge, in cubic feet per second, at selected sites--Continued

SITE 10 SUGARLOAF CREEK NEAR MONROE

DAY	WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT
1	.74	7.8	4.0	21	14	14	48	76	17	.22	.00	.00
2	.76	3.8	4.0	18	14	13	39	986	13	.21	.00	.00
3	.90	2.3	3.9	31	14	13	43	381	11	.18	.00	.00
4	.73	1.6	4.0	33	14	13	38	133	9.3	.15	.00	.00
5	.75	.95	3.7	28	13	12	31	76	7.9	.13	.00	.00
6	.98	1.0	3.8	24	13	11	28	50	6.8	.13	.00	.00
7	.84	1.0	3.4	22	12	11	26	38	5.5	.10	.00	.00
8	1.2	.93	3.1	19	75	10	29	28	5.0	.09	.00	.00
9	2.9	2.4	2.9	17	82	9.7	23	23	4.5	.08	.00	.00
10	2.8	2.3	2.7	16	56	9.4	19	20	4.0	.07	.00	.00
11	2.0	1.7	2.5	16	63	9.1	17	18	3.4	.05	.00	.00
12	2.4	1.8	7.8	14	72	13	17	17	3.0	.03	.00	.00
13	2.9	2.0	25	14	63	13	192	16	2.5	.03	.00	.00
14	3.6	2.0	14	13	67	10	211	14	2.3	.03	.00	.00
15	3.3	2.0	14	13	75	9.6	106	14	1.7	.02	.00	.00
16	3.6	1.9	13	16	56	9.8	72	419	1.3	.01	.00	.00
17	4.0	1.6	11	14	43	41	65	90	1.6	.00	.00	.00
18	4.5	1.7	9.8	13	39	33	55	51	1.8	.00	.00	.00
19	4.5	1.6	10	12	36	25	44	141	1.4	.00	.00	.00
20	4.2	2.7	11	15	31	22	37	69	1.3	.00	.00	.00
21	4.5	25	10	20	28	19	31	54	1.1	.00	.00	.00
22	4.5	14	13	25	24	18	26	87	1.0	.00	.00	.00
23	3.6	8.0	268	28	21	56	22	73	.78	.00	.00	.00
24	2.9	5.9	200	27	19	107	20	48	.67	.00	.00	.00
25	2.5	4.8	84	24	18	58	20	35	.57	.00	.00	.00
26	2.3	3.6	52	21	16	45	23	27	.50	.00	.00	.00
27	2.1	2.9	40	18	16	37	21	21	.42	.00	.00	.00
28	2.4	4.2	36	17	15	48	18	86	.38	.00	.00	.00
29	3.0	3.8	30	18	14	53	16	83	.31	.00	.00	.00
30	14	3.8	26	17	---	91	14	46	.27	.00	.00	.00
31	48	---	23	16	---	61	---	26	---	.00	.00	---
TOTAL	137.40	119.08	935.6	600	1023	894.6	1351	3246	110.30	1.53	.00	.00
MEAN	4.43	3.97	30.2	19.4	35.3	28.9	45.0	105	3.68	.049	.000	.000
MAXIMUM	48	25	268	33	82	107	211	986	17	.22	.00	.00
MINIMUM	.73	.93	2.5	12	12	9.1	14	14	.27	.00	.00	.00
INCHES	.10	.08	.65	.42	.71	.62	.94	2.25	.08	.00	.00	.00
ACRE- FEET	273	236	1860	1190	2030	1770	2680	6440	219	3.0	.00	.00
TOTAL	8418.51	MEAN 23.0	MAXIMUM 986	MINIMUM .00	INCHES 5.84	ACRE- FEET 16700						

Table 2.--Mean daily stream discharge, in cubic feet per second, at selected sites--Continued

SITE 10 SUGARLOAF CREEK NEAR MONROE

WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT
1	.00	3.9	4.5	4.0	24	236	33	22	135	930	243	10
2	.00	3.6	3.8	3.6	23	109	27	12	98	322	169	8.8
3	.00	3.2	3.8	3.5	19	76	24	7.7	172	82	63	7.7
4	.00	2.9	3.8	3.2	16	218	22	6.1	453	49	25	6.6
5	.00	2.9	3.8	3.0	13	122	18	8.0	1200	41	14	5.2
6	.00	2.8	3.4	3.0	12	79	16	35	1980	82	8.9	4.2
7	.00	2.8	3.3	3.0	11	60	15	32	524	103	32	3.7
8	.00	3.1	139	2.8	10	53	14	24	194	77	23	3.6
9	.00	3.3	122	2.8	11	44	13	827	107	41	12	2.8
10	.00	3.1	48	2.6	592	38	11	1060	72	27	8.1	2.4
11	.00	2.8	32	2.4	120	31	10	254	53	20	6.4	2.0
12	.00	2.6	23	2.2	69	27	9.2	122	44	15	5.8	1.8
13	.00	2.4	18	2.1	54	25	8.8	111	35	13	5.3	13
14	.00	2.6	14	2.0	43	22	8.4	268	27	11	4.7	59
15	.00	2.8	12	1.8	36	22	8.0	115	23	9.4	4.2	37
16	.00	2.9	12	1.8	31	27	7.7	75	96	7.9	3.6	12
17	.00	4.7	9.9	1.7	26	27	7.3	59	54	6.7	3.5	9.6
18	.00	5.0	9.3	1.6	23	294	7.0	64	32	6.3	19	7.0
19	.00	4.6	8.2	1.6	18	127	6.7	44	23	5.7	32	5.6
20	.00	4.2	7.2	1.8	17	81	10	32	17	5.0	12	4.8
21	.00	3.5	6.7	2.0	16	62	7.0	23	13	5.5	7.3	4.1
22	.00	3.9	6.7	1.9	14	50	7.4	17	11	6.6	5.4	3.5
23	.00	4.5	6.5	1.8	13	40	21	14	9.6	4.7	4.5	3.0
24	.00	3.9	5.9	1.8	12	33	16	382	8.1	3.8	3.8	2.9
25	.00	4.0	5.5	1.7	11	29	9.7	168	7.0	3.2	3.4	2.7
26	.00	4.1	5.2	1.7	11	24	7.1	156	6.4	2.8	152	2.4
27	32	4.5	5.0	1.7	9.6	22	5.8	73	5.5	2.5	241	2.4
28	23	4.7	4.8	1.5	328	20	5.0	236	4.9	2.3	79	2.2
29	8.1	4.7	4.5	1.6	---	80	5.0	272	4.7	5.6	36	2.0
30	5.1	4.7	4.2	2.1	---	68	14	402	4.1	6.7	20	1.8
31	4.3	---	4.1	2.0	---	44	---	304	---	14	14	---
TOTAL	72.50	108.7	540.1	70.3	1582.6	2190	374.1	5224.8	5413.3	1911.7	1260.9	233.8
MEAN	2.34	3.62	17.4	2.27	56.5	70.6	12.5	169	180	61.7	40.7	7.79
MAXIMUM	32	5.0	139	4.0	592	294	33	1060	1980	930	243	7.59
MINIMUM	.00	2.4	3.3	1.5	9.6	20	5.0	6.1	4.1	2.3	3.4	1.8
INCHES	.05	.08	.37	.05	1.10	1.52	.26	3.63	3.76	1.33	.88	.16
ACRE-FEET	144	216	1070	139	3140	4340	742	10360	10740	3790	2500	464
TOTAL	18982.80	MEAN 52.0	MAXIMUM	MAXIMUM	MINIMUM	MINIMUM	INCHES 13.17	ACRE-FEET	ACRE-FEET	37650		

Table 2.--Mean daily stream discharge, in cubic feet per second, at selected sites--Continued

SITE 11 OWL CREEK NEAR MCCURTAIN

WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT
1	---	---	---	---	---	---	---	---	---	.00	.00	.00
2	---	---	---	---	---	---	---	---	---	.00	.00	.00
3	---	---	---	---	---	---	---	---	---	.00	.00	.00
4	---	---	---	---	---	---	---	---	---	.00	.00	.00
5	---	---	---	---	---	---	---	---	---	.00	.00	.00
6	---	---	---	---	---	---	---	---	---	.00	.00	.00
7	---	---	---	---	---	---	---	---	---	.00	.00	.00
8	---	---	---	---	---	---	---	---	---	.00	.00	.00
9	---	---	---	---	---	---	---	---	---	.00	.00	.00
10	---	---	---	---	---	---	---	---	---	.00	.00	.00
11	---	---	---	---	---	---	---	---	---	.00	.00	.00
12	---	---	---	---	---	---	---	---	---	.00	.00	.00
13	---	---	---	---	---	---	---	---	---	.00	.00	.00
14	---	---	---	---	---	---	---	---	---	.00	.00	.00
15	---	---	---	---	---	---	---	---	---	.00	.00	.00
16	---	---	---	---	---	---	---	---	---	.00	.00	.00
17	---	---	---	---	---	---	---	---	---	.00	.00	.00
18	---	---	---	---	---	---	---	---	---	.00	.00	.00
19	---	---	---	---	---	---	---	---	---	.00	.00	.00
20	---	---	---	---	---	---	---	---	---	.00	.00	.00
21	---	---	---	---	---	---	---	---	---	.00	.00	.00
22	---	---	---	---	---	---	---	---	---	.00	.00	.00
23	---	---	---	---	---	---	---	---	---	.00	.00	.00
24	---	---	---	---	---	---	---	---	---	.00	.00	.00
25	---	---	---	---	---	---	---	---	---	.00	.00	.00
26	---	---	---	---	---	---	---	---	---	.00	.00	.00
27	---	---	---	---	---	---	---	---	---	.00	.00	.00
28	---	---	---	---	---	---	---	---	---	.00	.00	.00
29	---	---	---	---	---	---	---	---	---	.00	.00	.00
30	---	---	---	---	---	---	---	---	---	.00	.00	.00
31	---	---	---	---	---	---	---	---	---	.00	.00	.00
TOTAL										.00	.00	.00
MEAN										.000	.000	.000
MAXIMUM										.00	.00	.00
MINIMUM										.00	.00	.00
INCHES										.00	.00	.00
ACRE- FEET										.00	.00	.00

Table 2.--Mean daily stream discharge, in cubic feet per second, at selected sites--Continued

SITE 11 OWL CREEK NEAR MCCURTAIN

WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT
1	.00	.00	1.6	35	13	134	138	7.5	45	.15	4.1	.05
2	.00	.00	1.2	12	11	90	73	15	2840	.14	3.5	.12
3	.00	.00	4.6	8.2	10	337	47	72	238	.10	1.3	.12
4	.00	.00	2.4	5.9	8.8	100	42	85	92	.08	2.2	.07
5	.00	.00	1.4	4.3	7.8	56	32	52	53	.07	1.3	.04
6	.00	.00	.78	3.3	6.8	48	25	29	43	4.8	.69	.00
7	.00	.00	50	2.3	7.8	40	19	17	653	.45	.75	.00
8	.00	.00	20	1.6	9.0	27	17	10	89	.26	.37	.00
9	.00	.00	14	1.7	8.0	23	18	5.2	46	29	.21	.00
10	.00	.00	7.0	3.2	11	18	22	16	46	153	.17	.00
11	.00	.00	5.8	6.0	27	16	883	189	27	12	.13	.00
12	.00	.00	3.1	11	106	14	133	83	18	1.8	.10	.00
13	.00	.00	1.9	47	75	11	66	40	14	.56	.07	.00
14	.00	.00	1.2	24	64	10	44	23	12	.48	.06	.00
15	.00	.00	.76	17	51	9.0	30	13	7.8	.32	.04	.00
16	.00	.00	.46	16	30	7.8	21	11	5.1	.20	.02	.00
17	.00	.00	.52	17	23	6.8	17	3.6	3.5	141	.00	.00
18	.00	.00	.64	146	19	9.0	14	1.8	1.7	50	.00	.00
19	.00	.00	.80	234	16	546	20	1.5	1.2	10	.00	.00
20	.00	.00	1.5	210	15	607	75	2.7	.80	3.7	.00	.00
21	.00	.00	1.1	72	13	109	67	829	.63	1.8	.00	.00
22	.00	.00	.82	40	173	128	30	544	.48	1.3	.00	.00
23	.00	.00	.60	32	116	94	59	140	.48	.88	.00	.00
24	.00	.00	.50	23	169	53	62	72	.48	.48	.00	.00
25	.00	.00	.40	17	245	37	29	46	.48	.37	.00	.00
26	.00	.00	.32	27	188	30	30	36	.43	.28	.00	.00
27	.00	.00	.60	70	204	48	17	721	.23	95	.09	.00
28	.00	.00	1.3	50	443	33	16	553	.22	58	.05	.00
29	.00	.00	3.5	33	---	30	15	171	.16	20	.00	.00
30	.00	.00	16	22	---	67	10	77	.15	4.6	.00	.00
31	.00	.00	124	16	---	50	---	51	---	2.4	.00	---
TOTAL	.00	142.20	268.80	1207.5	2070.2	2788.6	2071	3917.3	4239.84	593.22	15.15	.40
MEAN	.00	4.74	8.67	39.0	73.9	90.0	69.0	126	141	19.1	.49	.013
MAXIMUM	.00	35	124	234	443	607	883	829	2840	153	4.1	.12
MINIMUM	.00	.00	.32	1.6	6.8	6.8	10	1.5	.15	.07	.00	.00
INCHES	.00	.19	.36	1.61	2.76	3.72	2.76	5.22	5.65	.79	.02	.00
ACRE-Feet	.00	282	533	2400	4110	5530	4110	7770	8410	1180	.30	.8
TOTAL	17314.21	MEAN 47.4	MAXIMUM	2840	MINIMUM	.00	INCHES 23.08	ACRE-Feet	34340			

Table 2.--Mean daily stream discharge, in cubic feet per second, at selected sites--Continued

SITE 11 OWL CREEK NEAR MCCURTAIN

WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT
1	.00	.11	.75	.93	1.8	1.6	29	50	6.2	2.7	.00	.00
2	.00	.19	.64	.88	1.7	1.1	21	448	2.6	2.0	.00	.00
3	.00	.17	.56	.82	1.7	.90	17	158	2.0	1.2	.00	.00
4	.00	.13	.59	.73	1.7	.97	12	64	2.7	.73	.00	.00
5	.00	.11	.75	.66	1.3	.79	7.8	39	2.1	1.0	.00	.00
6	.00	.08	.90	.58	1.3	.82	6.8	25	1.2	.32	.00	.00
7	.00	.06	2.9	.52	.97	.94	6.0	16	.85	.14	.00	.00
8	.00	.05	.67	.50	12	.80	5.0	12	.64	.17	.00	.00
9	.00	.58	.61	.48	21	.75	4.3	7.7	.42	.72	.00	.00
10	.00	.25	.46	.46	14	.72	2.9	4.7	.32	1.4	.00	.00
11	.00	.19	.34	.44	14	.59	2.3	3.2	.27	1.4	.00	.00
12	.00	.15	12	.43	13	1.1	1.7	4.3	.20	.27	.00	.00
13	.00	.11	9.7	.42	12	.90	1.3	5.9	.17	.15	.00	.00
14	.00	.09	4.0	.40	12	.59	1.3	5.1	.14	.07	.00	.00
15	.00	.08	2.4	.39	11	.56	1.3	13	.11	.02	.00	.00
16	.00	.08	1.8	.37	9.6	.57	1.1	268	.06	.07	.00	.00
17	.00	.07	1.5	.36	8.8	7.8	2.9	62	.11	.19	.00	.00
18	.00	.06	1.2	.35	8.7	7.2	1.3	37	.35	.15	.00	.00
19	.00	.05	1.0	.34	8.5	6.1	1.88	36	1850	.10	.00	.00
20	.00	.09	.84	.56	8.3	6.9	1.7	23	104	.06	.00	.00
21	.00	.36	.68	.97	8.0	9.1	1.3	66	87	.02	.00	.00
22	.00	17	.56	1.9	9.9	14	1.7	127	52	.00	.00	.00
23	.00	4.3	8.9	1.3	10	71	.75	68	39	.36	.00	.00
24	.00	.75	23	.84	6.4	109	1.7	40	26	.40	.00	.00
25	.00	.88	10	.85	4.5	42	1.7	25	16	.20	.00	.00
26	.00	1.1	9.4	.72	4.5	25	4.3	16	11	.12	.00	.00
27	.00	1.3	6.5	.57	4.1	15	5.9	11	8.9	.21	.00	.00
28	.00	1.2	2.6	.56	4.5	15	5.0	11	6.9	.12	.00	.15
29	.00	1.0	1.9	.67	3.1	66	1.7	20	5.1	.07	.00	.03
30	9.0	.88	1.4	1.8	---	89	1.1	21	3.5	.03	.00	.00
31	6.9	---	1.1	2.9	---	42	---	11	---	.00	.00	---
TOTAL	15.90	67.11	109.65	23.70	218.37	538.80	152.73	1697.9	2229.84	14.39	.00	.18
MEAN	.51	2.24	3.54	.76	7.53	17.4	5.09	54.8	74.3	.46	.00	.006
MAXIMUM	9.0	36	23	2.9	21	109	.29	448	1850	2.7	.00	.15
MINIMUM	.00	.05	.34	.34	.97	.56	.75	3.2	.06	.00	.00	.00
INCHES	.02	.09	.15	.03	.29	.72	.20	2.26	2.97	.02	.00	.00
ACRE-FOOT	32	133	217	.47	433	1070	303	3370	4420	.29	.00	.4
TOTAL	5068.57	MEAN 13.8	MAXIMUM	1850	MINIMUM	.00	INCHES 6.76	ACRE-FOOT	10050			

Table 2.--Mean daily stream discharge, in cubic feet per second, at selected sites--Continued

SITE 11 OWL CREEK NEAR MCCURTAIN

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT
1	.00	.00	.17	.42	2.9	91	20	108	60	15	102	1.1
2	.00	.00	.18	.38	1.1	43	15	46	43	12	16	1.0
3	.00	.00	.17	.36	.64	38	14	26	36	4.2	6.2	.90
4	.00	.00	.17	.32	.64	136	20	18	28	2.7	4.1	.70
5	.00	.00	.19	.33	.64	47	15	37	211	4.1	2.8	.60
6	.00	.00	.25	.34	.88	30	11	40	439	38	5.5	.40
7	.00	.00	.34	.35	1.1	24	10	30	209	11	60	.20
8	.00	.00	109	.37	1.3	25	9.0	52	60	6.6	15	.10
9	.00	.00	58	.41	6.2	23	8.0	1030	28	4.3	6.4	.01
10	.00	.00	34	.41	48	19	7.5	784	17	2.9	3.5	.00
11	.00	.00	23	.37	32	15	6.6	142	11	2.2	2.6	.00
12	.00	.00	15	.28	16	13	5.7	61	11	1.8	2.3	.00
13	.00	.00	12	.25	12	12	4.9	110	9.4	1.3	2.1	.11
14	.00	.00	9.0	.22	9.0	11	4.6	119	7.6	.95	1.6	132
15	.00	.00	7.8	.22	6.8	16	3.9	53	5.5	.75	1.3	18
16	.00	.00	5.9	.20	5.0	18	3.6	39	235	.49	.80	5.7
17	.06	.08	5.0	.20	4.3	14	3.3	46	60	.22	.70	2.1
18	.09	.00	5.0	.20	3.7	26	3.0	30	32	.15	.80	1.1
19	.02	.00	3.7	.20	2.9	20	3.6	20	20	.05	1.0	.86
20	.00	.20	2.3	.32	1.8	16	39	16	14	.00	.80	.90
21	.00	.25	1.8	.42	1.8	15	24	13	11	.00	.70	1.3
22	.00	.20	1.8	.37	1.4	14	17	10	8.6	.00	.50	2.1
23	.00	.22	1.8	.37	1.1	12	14	26	7.5	.00	.40	2.2
24	.00	.21	1.2	.37	.75	11	13	320	6.1	.00	.30	1.8
25	.00	.16	.77	.37	.75	9.6	11	65	4.6	.00	.20	1.2
26	.00	.13	.64	.28	.64	7.5	9.6	54	3.8	.00	.30	.86
27	6.5	.13	.64	.25	.64	8.0	9.6	33	3.1	.00	1.6	.70
28	.12	.13	.62	.28	190	9.6	9.0	257	2.1	.00	3.9	.73
29	.03	.15	.53	.32	---	136	11	320	1.6	89	3.3	.79
30	.00	.14	.48	.37	---	44	106	246	1.3	46	2.4	.59
31	.00	---	.48	1.1	---	28	---	96	---	95	1.6	---
TOTAL	6.82	2.00	301.93	10.65	353.98	931.7	431.9	4247	1586.2	375.61	250.70	178.05
MEAN	.22	.067	9.74	.34	12.6	30.1	14.4	137	52.9	12.1	8.09	5.94
MAXIMUM	6.5	.25	109	1.1	190	136	106	1030	439	95	102	132
MINIMUM	.00	.00	.17	.20	.64	7.5	3.0	10	1.3	.00	.20	.00
INCHES	.01	.00	.40	.01	.47	1.24	.58	5.66	2.11	.50	.33	.24
ACRE-FEET	14	4.0	599	21	702	1850	857	8420	3150	745	497	353
TOTAL	8676.54	MEAN 23.8	MAXIMUM 1030	MINIMUM .00	INCHES 11.57	ACRE-FEET 17210						

Table 2.---Mean daily stream discharge, in cubic feet per second, at selected sites--Continued

SITE 12 HOLI-TUSKA CREEK NEAR PANAMA

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT
1	---	---	---	---	---	---	---	---	---	.00	.00	.00
2	---	---	---	---	---	---	---	---	---	.00	.00	.00
3	---	---	---	---	---	---	---	---	---	.00	.00	.00
4	---	---	---	---	---	---	---	---	---	.00	.00	.00
5	---	---	---	---	---	---	---	---	---	.00	.00	.00
6	---	---	---	---	---	---	---	---	---	.00	.00	.00
7	---	---	---	---	---	---	---	---	---	.00	.00	.00
8	---	---	---	---	---	---	---	---	---	.00	.00	.00
9	---	---	---	---	---	---	---	---	---	.00	.00	.00
10	---	---	---	---	---	---	---	---	---	.00	.00	.00
11	---	---	---	---	---	---	---	---	---	.00	.00	.00
12	---	---	---	---	---	---	---	---	---	.00	.00	.00
13	---	---	---	---	---	---	---	---	---	.00	.00	.00
14	---	---	---	---	---	---	---	---	---	.00	.00	.00
15	---	---	---	---	---	---	---	---	---	.00	.00	.00
16	---	---	---	---	---	---	---	---	---	.00	.00	.00
17	---	---	---	---	---	---	---	---	---	.00	.00	.00
18	---	---	---	---	---	---	---	---	---	.00	.00	.00
19	---	---	---	---	---	---	---	---	---	.00	.00	.00
20	---	---	---	---	---	---	---	---	---	.00	.00	.00
21	---	---	---	---	---	---	---	---	---	.00	.00	.00
22	---	---	---	---	---	---	---	---	---	.00	.00	.00
23	---	---	---	---	---	---	---	---	---	.00	.00	.00
24	---	---	---	---	---	---	---	---	---	.00	.00	.00
25	---	---	---	---	---	---	---	---	---	.00	.00	.00
26	---	---	---	---	---	---	---	---	---	.00	.00	.00
27	---	---	---	---	---	---	---	---	---	.00	.00	.00
28	---	---	---	---	---	---	---	---	---	.00	.00	.00
29	---	---	---	---	---	---	---	---	---	.00	.00	.00
30	---	---	---	---	---	---	---	---	---	.00	.00	.00
31	---	---	---	---	---	---	---	---	---	.00	.00	.00
TOTAL										.00	.00	.00
MEAN										.000	.000	.000
MAXIMUM										.00	.00	.00
MINIMUM										.00	.00	.00
INCHES										.00	.00	.00
ACRE-FEET										.00	.00	.00

Table 2.--Mean daily stream discharge, in cubic feet per second, at selected sites--Continued

SITE 12 HOLLI-TUSKA CREEK NEAR PANAMA

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT
1	.00	.00	.70	.18	1.1	14	47	.39	2.2	.00	.01	.21
2	.00	.00	.60	.20	1.0	10	9.3	1.6	216	.00	.00	.09
3	.00	.00	3.3	2.7	1.5	70	5.2	14	19	.00	.00	.02
4	.00	.00	1.0	2.3	1.5	13	5.6	15	7.6	.00	.00	.01
5	.00	.00	.75	2.0	2.6	8.7	4.0	7.5	4.0	1.0	.00	.00
6	.00	.00	.45	1.6	3.0	6.6	2.7	3.1	2.7	1.6	.00	.00
7	.00	.00	1.4	1.4	4.3	4.9	1.6	1.2	42	.08	.00	.00
8	.00	.00	.90	1.2	4.9	3.6	1.2	.49	5.9	.04	.00	.00
9	.00	.00	.72	.98	5.1	2.5	1.4	.25	2.0	.00	.00	.00
10	.00	.00	.60	1.2	2.2	1.7	7.3	1.6	1.7	.00	.00	.00
11	.00	.00	.40	1.3	5.6	1.4	117	55	.69	.00	9.6	.00
12	.00	.00	.31	2.0	14	1.2	15	15	.29	.00	.20	.00
13	.00	.00	.26	5.2	15	1.2	6.0	4.8	.23	.00	.02	.00
14	.00	.00	.24	2.9	19	.94	3.3	2.1	.15	.00	6.0	.00
15	.00	.50	.26	.39	12	.72	1.6	1.1	.09	.00	3.6	.00
16	.00	1.0	.24	.79	4.4	.72	1.0	.54	.08	.00	.20	.00
17	.00	1.1	.33	3.3	3.0	.72	.66	.42	.05	24	.05	.00
18	.00	.90	.38	35	2.3	.91	.51	.28	.05	2.6	.00	.00
19	.00	.50	.45	50	1.6	41	1.1	.26	.00	.18	.00	.00
20	.00	.30	.40	54	2.0	144	41	.29	.00	.04	.00	.00
21	.00	.74	.35	15	2.9	17	14	172	.00	.01	.00	.00
22	.00	.66	.30	8.1	35	18	3.6	94	.00	.07	.00	.00
23	.00	.54	.21	8.1	17	15	12	16	.00	.00	.00	.00
24	.00	.47	.18	5.8	63	7.7	7.9	6.2	.00	.00	.00	.00
25	.00	.48	.20	4.2	86	4.6	3.5	2.8	.00	.00	.00	.00
26	.00	2.1	.22	5.8	33	5.9	1.4	1.8	.00	.00	.00	.00
27	.00	1.6	.26	9.5	21	21	.88	25	.00	1.6	.00	.00
28	.00	1.2	.28	7.0	47	5.9	.96	144	.00	1.1	.00	.00
29	.00	1.0	.21	2.8	---	4.9	.98	19	.00	.12	.00	.00
30	.00	.85	.19	1.5	---	23	.50	7.7	.00	.05	.00	.00
31	.00	---	.18	2.1	---	7.3	---	3.8	.00	.01	.14	.00
TOTAL	.00	13.94	16.27	238.54	411.0	458.11	318.19	617.22	304.73	32.50	19.82	.33
MEAN	.000	.46	.52	7.69	14.7	14.8	10.6	19.9	10.2	1.05	.64	.011
MAXIMUM	.00	2.1	3.3	54	86	144	117	172	216	.24	9.6	.21
MINIMUM	.00	.00	.18	.18	1.0	.72	.50	.25	.00	.00	.00	.00
INCHES	.00	.12	.14	2.02	3.48	3.88	2.70	5.23	2.58	.28	.17	.00
ACRE-FEET	.00	.28	.32	473	815	909	631	1220	604	.64	.39	.7
TOTAL	2430.65	MEAN 6.66	MAXIMUM 216	MINIMUM .00	INCHES 20.59	ACRE-FEET 4820						

Table 2.--Mean daily stream discharge, in cubic feet per second, at selected sites--Continued

SITE 12 HOLLI-TUSKA CREEK NEAR PANAMA

WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT
1	.00	.14	.00	.21	.21	.15	5.0	.33	.07	.00	.00	.00
2	.00	.03	.00	.21	.21	.11	3.4	8.6	.04	.00	.00	.00
3	.00	.00	.00	.21	.15	.09	6.2	9.4	.00	.00	.00	.00
4	.00	.00	.00	.21	.15	.09	2.5	2.7	.00	.00	.00	.00
5	.00	.00	.00	.21	.15	.09	1.2	.98	.00	.00	.00	.00
6	.00	.00	.00	.21	.15	.10	1.1	.37	.00	.00	.00	.00
7	.00	.00	.00	.21	.15	.12	.80	.22	.00	.00	.00	.00
8	.00	.00	.00	.21	.52	.15	.57	.16	.00	.00	.00	.00
9	.00	.01	.00	.17	2.0	.11	.49	.10	.00	.00	.00	.00
10	.00	.00	.00	.15	2.5	.09	.21	.09	.00	.00	.00	.00
11	.00	.00	.00	.15	3.6	.09	.21	.09	.00	.00	.00	.00
12	.00	.00	.49	.15	2.5	.18	.21	.04	.00	.00	.00	.00
13	.00	.00	1.4	.15	1.4	.30	.21	.05	.00	.00	.00	.00
14	.00	.00	.39	.15	1.1	.27	.21	.03	.00	.00	.00	.00
15	.00	.00	.21	.15	.98	.21	.21	1.6	.00	.00	.00	.00
16	.00	.00	.17	.15	.78	.21	.17	.49	.00	.00	.00	.00
17	.00	.00	.10	.15	.41	.21	.42	4.7	.00	.00	.00	.00
18	.00	.00	.09	.15	.31	.47	.86	1.9	.00	.00	.00	.00
19	.00	.03	.09	.15	.28	.43	.43	2.5	.03	.00	.00	.00
20	.00	.02	.09	.20	.28	.39	.24	.77	.04	.00	.00	.00
21	.00	.31	.09	.53	.28	.32	.16	.39	.04	.00	.00	.00
22	.00	.16	.09	.72	.28	.28	.15	1.9	.00	.00	.00	.00
23	.00	.09	3.6	.53	.28	12	.09	2.0	.00	.00	.00	.00
24	.00	.08	5.5	.39	.21	.21	.09	.66	.00	.00	.00	.00
25	.00	.03	1.6	.28	.21	6.7	.14	.25	.00	.00	.00	.00
26	.00	.02	.78	.21	.10	4.5	.22	.16	.00	.00	.00	.00
27	.00	.02	.59	.21	.09	3.5	.28	.08	.00	.00	.00	.00
28	.00	.01	.50	.15	.12	5.0	.22	.05	.00	.00	.00	.00
29	.00	.01	.39	.15	.15	20	.19	.05	.00	.00	.00	.00
30	3.3	.00	.34	.15	---	16	.10	.05	.00	.00	.00	.00
31	3.6	---	.21	.21	---	7.2	---	.11	.00	.00	.00	---
TOTAL	6.90	.96	16.72	7.08	19.55	100.36	26.28	89.33	.22	.00	.00	.00
MEAN	.22	.032	.54	.23	.67	3.24	.88	2.88	.007	.000	.000	.000
MAXIMUM	3.6	.31	5.5	.72	3.6	.21	6.2	.49	.07	.00	.00	.00
MINIMUM	.00	.00	.00	.15	.09	.09	.09	.03	.00	.00	.00	.00
INCHES	.06	.01	.14	.06	.17	.85	.22	.76	.00	.00	.00	.00
ACRE-Feet	.14	1.9	.33	.14	.39	.199	.52	.177	.4	.00	.00	.00
TOTAL	267.40	MEAN .73	MAXIMUM 49	MINIMUM .00	INCHES 2.27	ACRE-Feet 530						

Table 2.--Mean daily stream discharge, in cubic feet per second, at selected sites--Continued

SITE 12 HOLI-TUSKA CREEK NEAR PANAMA

WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT
1	.00	.00	.00	.00	.00	.39	.09	1.6	3.0	.09	135	.00
2	.00	.00	.00	.00	.00	.15	.05	.31	25	.02	3.0	.00
3	.00	.00	.00	.00	.00	.15	.06	.16	26	.02	.53	.00
4	.00	.00	.00	.00	.00	.72	.06	.16	6.4	.00	.20	.00
5	.00	.00	.00	.00	.00	.20	.05	1.8	92	.00	.09	.00
6	.00	.00	.00	.00	.00	.09	.05	2.3	85	.39	.05	.00
7	.00	.00	.00	.00	.00	.05	.03	.97	12	.15	.05	.00
8	.00	.00	.18	.00	.00	.02	.03	.44	5.6	.05	.02	.00
9	.00	.00	.02	.00	.00	.02	.20	50	2.7	.02	.02	.00
10	.00	.00	.00	.00	.09	.01	.21	39	1.2	.01	.00	.00
11	.00	.00	.00	.00	.05	.01	.15	11	.53	.00	.00	.00
12	.00	.00	.00	.00	.05	.00	.14	5.2	.53	.00	.00	.00
13	.00	.00	.00	.00	.02	.00	.05	8.4	.72	.00	.00	.00
14	.00	.00	.00	.00	.00	.00	.05	22	.39	.00	.00	.00
15	.00	.00	.00	.00	.00	.00	.02	3.7	.72	.00	.00	.00
16	.00	.00	.00	.00	.00	.03	.00	1.5	33	.00	.00	.00
17	.00	.00	.00	.00	.00	.03	.00	1.0	4.4	.00	.00	.00
18	.00	.00	.00	.00	.00	.55	.00	.69	1.4	.00	.00	.00
19	.00	.00	.00	.00	.00	.26	.00	.42	.72	.00	.00	.00
20	.00	.00	.00	.00	.00	.15	.00	.21	.28	.00	.00	.00
21	.00	.00	.00	.00	.00	.15	.00	.15	.15	.00	.00	.00
22	.00	.00	.00	.00	.00	1.1	.02	.10	.09	.00	.00	.00
23	.00	.00	.00	.00	.00	.67	.20	.33	.05	.00	.00	.00
24	.00	.00	.00	.00	.00	.27	.15	64	.02	.00	.00	.00
25	.00	.00	.00	.00	.00	.15	.09	7.8	.01	.00	.00	.00
26	.00	.00	.00	.00	.00	.09	.05	7.0	.00	.00	.00	.00
27	.00	.00	.00	.00	.00	.09	.04	2.7	.00	.00	.00	.00
28	.00	.00	.00	.00	.15	.09	.55	5.2	.00	.00	.00	.00
29	.00	.00	.00	.00	---	.09	.50	17	.00	.00	.00	.00
30	.00	.00	.00	.00	---	.13	6.9	14	.00	.00	.00	.00
31	.00	---	.00	.00	---	.15	---	6.5	---	.00	.00	---
TOTAL	.00	.00	.20	.00	.36	5.81	9.74	275.64	301.91	.75	138.96	.00
MEAN	.00	.00	.006	.00	.013	.19	.32	8.89	10.1	.024	4.48	.000
MAXIMUM	.00	.00	.18	.00	.15	1.1	6.9	.64	.92	.39	135	.00
MINIMUM	.00	.00	.00	.00	.00	.00	.00	.10	.00	.00	.00	.00
INCHES	.00	.00	.00	.00	.00	.05	.08	2.34	2.56	.01	1.18	.00
ACRE-FEET	.00	.00	.4	.00	.7	12	19	547	599	1.5	276	.00
TOTAL	733.37	MEAN 2.01	MAXIMUM	135	MINIMUM	.00	INCHES 6.21	ACRE-FEET 1450				

Table 2.--Mean daily stream discharge, in cubic feet per second, at selected sites--Continued

SITE 13 MUDDY BOGGY AT ATOKA

WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT
1	.04	.00	44	2.6	21	805	1110	19	149	34	5.4	79
2	.02	.00	33	2.6	16	343	3210	19	171	23	5.1	30
3	.04	.00	42	2.6	13	817	878	25	900	17	7.1	39
4	.10	.00	17	2.6	11	930	303	740	249	15	6.9	28
5	.08	.00	8.5	2.6	10	367	214	374	257	12	6.1	19
6	.06	.20	5.6	2.6	9.5	192	154	175	1080	14	5.0	15
7	.04	.40	3.1	2.6	10	119	117	113	2040	160	4.0	12
8	.03	.86	2.4	2.6	19	74	88	73	5480	359	3.5	10
9	.02	.87	2.5	2.6	18	52	68	47	8480	151	3.1	8.3
10	.01	.87	1.7	2.7	17	38	57	33	7850	71	3.4	6.7
11	.00	.88	1.7	2.7	100	29	688	109	6970	48	3.7	5.2
12	.00	.89	3.0	2.7	390	24	2580	452	5330	138	8.4	4.1
13	.00	.90	2.7	2.9	430	19	915	240	425	88	30	3.6
14	.00	1.0	2.5	4.3	180	15	227	115	193	46	17	3.1
15	.00	3.0	2.0	5.7	135	13	145	65	140	27	11	2.7
16	.00	16	1.3	7.6	91	12	108	39	108	20	8.2	2.4
17	.00	103	2.2	9.2	66	11	89	27	83	21	87	2.4
18	.00	77	2.9	35	43	11	88	20	63	331	36	2.3
19	.00	83	3.1	150	28	1980	522	17	50	250	17	2.4
20	.00	32	3.0	750	20	6910	739	25	41	87	11	2.4
21	.00	39	2.7	400	17	5940	372	2310	35	45	82	2.7
22	.00	55	2.9	230	16	2570	343	4540	30	27	80	2.9
23	.19	35	2.7	130	446	2840	130	5130	26	19	159	3.6
24	.14	23	2.7	75	1220	1150	93	2600	23	14	115	4.0
25	.10	14	2.7	43	1160	321	71	288	22	10	50	3.8
26	.08	35	2.7	70	2010	186	52	153	43	8.4	27	3.3
27	.06	400	2.6	165	1160	142	38	111	151	7.9	17	3.4
28	.04	200	2.6	100	997	116	29	998	105	7.2	148	2.8
29	.03	90	2.6	70	---	100	23	3900	66	6.7	275	2.3
30	.02	56	2.5	45	---	273	20	2210	39	6.7	62	1.9
31	.00	---	2.5	30	---	120	---	297	---	6.0	33	---
TOTAL	1.10	1267.87	213.4	2354.2	8653.5	26519	13471	25264	40599	2069.9	1326.9	308.3
MEAN	.035	42.3	6.88	75.9	309	855	449	815	1353	66.8	42.8	10.3
MAXIMUM	.19	400	44	750	2010	6910	3210	5130	8480	359	275	79
MINIMUM	.00	.00	1.3	2.6	9.5	11	20	17	22	6.0	3.1	1.9
INCHES	.00	.11	.02	.20	.72	2.22	1.13	2.11	3.39	.17	.11	.03
ACRE-Feet	2.2	2510	423	4670	17160	52600	26720	50110	80530	4110	2630	612
TOTAL	122048.17	334		MAXIMUM	8480	MINIMUM	.00	INCHES	10.20	ACRE-Feet	242100	

Table 2.--Mean daily stream discharge, in cubic feet per second, at selected sites--Continued

SITE 13 MUDDY BOGGY AT ATOKA

WATER YEAR 1979 TO SEPTEMBER 1980												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT
1	1.6	126	4.1	7.5	8.1	5.1	9.1	40	1270	7.6	.45	.00
2	1.4	77	3.5	6.9	7.1	4.7	8.0	1480	279	6.4	.38	.00
3	1.1	31	3.0	6.7	6.5	4.4	25	3660	144	5.4	.30	.00
4	1.0	16	2.7	6.1	6.1	4.0	23	922	96	4.5	.22	.00
5	.99	12	2.5	5.9	5.7	3.9	12	159	64	3.7	.15	.00
6	.95	9.3	2.3	5.7	5.5	3.8	8.9	89	43	3.0	.07	.00
7	1.0	7.4	2.3	6.0	5.3	3.8	7.3	52	30	2.6	.04	.00
8	1.2	5.8	2.2	5.8	197	3.9	6.1	31	21	2.3	.00	.00
9	1.3	5.0	2.2	5.6	312	3.9	5.3	21	17	2.0	.00	.00
10	1.2	4.1	2.3	5.5	218	3.9	4.7	16	14	1.7	.00	.00
11	1.3	3.5	2.4	5.6	120	3.9	4.3	12	11	1.5	.00	.00
12	1.4	3.3	2.7	5.5	77	3.9	3.9	10	9.0	1.5	.00	.00
13	1.3	3.2	3.1	5.3	50	4.1	3.8	8.7	7.7	1.5	.00	.00
14	1.3	2.8	3.0	5.1	33	4.2	3.5	6.9	6.6	1.5	.00	.00
15	1.3	2.7	3.4	5.0	25	4.2	3.4	58	5.6	1.5	.00	.00
16	1.3	2.8	3.9	4.9	20	4.2	3.1	310	4.7	1.6	.00	.00
17	2.0	2.7	5.1	4.8	16	4.5	3.0	127	4.0	1.5	.00	.00
18	2.4	2.9	6.6	4.8	13	4.6	2.8	113	3.6	1.2	.00	.00
19	2.3	3.4	7.3	5.0	12	24	2.7	769	3.3	1.0	.00	.00
20	2.4	3.6	7.3	5.4	11	59	2.6	267	1850	.64	.00	.00
21	2.5	4.8	7.3	25	10	30	2.5	173	2140	.49	.00	.00
22	5.7	4.6	6.9	52	9.3	18	2.5	106	573	.45	.00	.00
23	7.6	4.2	7.4	53	8.0	13	2.5	75	146	.38	.00	.00
24	7.4	21	7.9	60	7.6	10	2.4	43	77	.34	.00	.00
25	8.1	27	8.1	40	7.3	8.5	3.2	43	46	.30	.00	.00
26	8.9	16	8.2	26	6.8	7.3	33	25	29	.26	.00	.00
27	10	11	10	18	6.4	7.2	25	17	19	.30	.00	.00
28	13	7.9	12	14	6.0	13	39	13	15	.34	.00	.00
29	13	6.2	10	11	5.4	15	38	80	11	.41	.00	.00
30	14	5.1	8.7	9.7	---	12	26	4650	9.2	.45	.00	.00
31	18	---	8.2	8.9	---	11	---	4700	---	.48	.00	---
TOTAL	136.94	432.3	163.2	430.7	1215.1	303.0	316.6	18076.6	6948.7	56.84	1.61	4249.00
MEAN	4.42	14.4	5.26	13.9	41.9	9.77	10.6	583	232	1.83	.052	142
MAXIMUM	18	126	12	60	312	59	39	4700	2140	7.6	.45	2970
MINIMUM	.95	2.7	2.2	4.8	5.3	3.8	2.4	6.9	3.3	.26	.00	.00
INCHES	.01	.04	.01	.04	.10	.03	.03	1.51	.58	.00	.00	.36
ACRE-Feet	272	857	324	854	2410	601	628	35850	13780	113	3.2	8430

Table 2.--Mean daily stream discharge, in cubic feet per second, at selected sites--Continued

SITE 13 MUDDY BOGGY AT ATOKA

WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT
1	73	11	5.3	2.1	1.7	1260	46	15	422	9.2	80	22
2	33	8.8	4.7	2.0	1.7	345	27	12	236	14	43	15
3	19	7.2	4.0	1.9	1.7	496	20	10	269	9.1	24	11
4	13	6.2	3.6	1.8	1.6	2900	18	8.7	298	45	17	9.0
5	11	5.6	3.5	1.7	1.6	1340	16	7.4	217	436	13	8.2
6	10	4.8	3.4	1.8	1.6	382	15	6.3	782	283	11	7.2
7	9.0	4.9	3.1	1.9	1.5	163	12	5.5	3290	73	10	7.5
8	8.5	5.3	2830	1.8	1.5	114	9.2	5.1	2360	152	8.7	9.5
9	8.0	5.3	2980	1.7	1.8	82	8.0	320	278	309	7.5	8.2
10	7.5	5.2	681	1.8	3.7	61	6.8	3200	127	99	6.4	6.6
11	6.8	4.8	192	1.8	6.4	47	6.2	2410	77	45	5.6	5.3
12	6.4	4.9	97	1.7	8.0	37	5.6	450	52	25	5.0	4.5
13	5.8	4.5	54	1.7	6.0	30	5.1	133	38	17	4.2	3.8
14	5.3	4.0	32	1.8	5.0	24	4.8	76	29	14	3.6	3.1
15	4.8	3.5	20	1.9	4.5	21	4.4	70	48	11	3.1	2.6
16	4.4	3.6	14	1.8	4.5	19	4.1	95	298	9.1	3.4	2.2
17	28	5.8	10	1.7	4.4	17	4.0	53	364	7.4	20	2.0
18	45	14	8.5	1.7	4.1	16	3.7	32	174	6.2	19	1.8
19	27	25	6.5	1.6	4.0	15	3.8	23	80	5.2	9.4	1.7
20	19	18	5.5	1.7	3.8	15	4.2	19	47	4.6	7.5	1.6
21	13	13	4.9	1.7	3.6	16	4.6	15	30	4.2	6.6	1.4
22	11	11	4.3	1.7	3.5	13	10	13	21	3.7	5.6	1.4
23	8.7	10	3.9	1.8	3.4	12	1030	12	17	3.4	4.8	1.6
24	7.2	9.0	3.4	1.8	3.1	11	466	500	14	3.1	4.1	1.5
25	6.0	8.5	3.1	1.8	3.4	9.5	128	406	12	2.9	3.5	1.4
26	5.0	8.0	2.8	1.8	3.2	8.7	60	164	9.7	2.7	3.6	1.3
27	307	7.5	2.7	1.9	3.1	8.2	35	101	8.1	2.4	320	1.2
28	249	6.8	2.6	1.8	1820	8.0	24	63	6.8	67	1350	1.2
29	60	5.0	2.4	1.7	---	67	21	46	5.8	975	557	1.0
30	23	5.4	2.3	1.8	---	147	17	51	5.1	439	89	.84
31	14	---	2.3	1.7	---	97	---	744	---	239	39	---
TOTAL	1048.4	237.6	6992.8	55.4	1912.4	7781.4	2019.5	9066.0	9615.5	3316.2	2684.6	145.64
MEAN	33.8	7.92	226	1.79	68.3	251	67.3	292	321	107	86.6	4.85
MAXIMUM	307	25	2980	2.1	1820	2900	1030	3200	3290	975	1350	.22
MINIMUM	4.4	3.5	2.3	1.6	1.5	8.0	3.7	5.1	5.1	2.4	3.1	.84
INCHES	.09	.02	.58	.00	.16	.65	.17	.76	.80	.28	.22	.01
ACRE-FOOT	2080	471	13870	110	3790	15430	4010	17980	19070	6580	5320	289
TOTAL	44875.44	MEAN 123	MAXIMUM	MAXIMUM	3290	MINIMUM	.84	INCHES 3.75	ACRE-FOOT 89010			

Table 3.--Physical properties, selected field constituents, and concentration of suspended sediment of water at selected sites

[CFS, cubic feet per second; US/CM, microsiemens per centimeter at 25° Celsius; DEG C, degrees Celsius
MG/L, milligrams per liter; MM, millimeters]

SITE 1 TI CREEK NEAR BLANCO

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC DUCT- ANCE (US/CM)	pH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	BICAR- BONATE FET-FLD (MG/L AS HC03)	ALKA- LITY FIELD (MG/L AS CAC03)	SEDI- MENT, SUS- PENDED (MG/L)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT, 1980	1325	.03	155	--	16.0	8.2	83	28	23	220	30
DEC 20...											
DEC 11...	1230	.03	266	7.5	13.0	10.6	99	43	35	26	25
DEC 11...	1511	2.3	155	--	8.0	11.6	97	18	15	4	85
JAN, 1981											
JAN 02...	1242	.06	360	7.2	7.0	12.4	103	--	--	4	75
FEB 02...	1345	.08	440	7.4	6.5	13.7	110	--	--	10	87
FEB 28...	1019	50	102	6.9	13.0	10.0	94	20	16	209	94
MAR 04...	1155	14	102	--	13.5	10.0	98	17	14	28	91
APR 03...	1430	.27	300	7.9	21.5	10.0	115	49	40	15	92
APR 03...	1933	125	91	6.9	16.5	9.0	93	23	19	1830	90
APR 14...	1440	.10	360	7.4	19.5	6.8	73	60	49	6	88
MAY 01...	1230	.02	600	7.7	23.0	10.2	119	88	72	16	96
MAY 10...	1205	5.8	105	7.2	17.0	9.2	96	27	22	31	91
MAY 20...	1230	.14	380	7.7	21.0	9.3	104	--	--	15	88
JUNE 01...	1425	2.4	180	7.5	26.0	8.4	104	39	32	234	100
JUNE 01...	1915	--	90	7.3	26.0	7.1	88	25	21	49	55
JUNE 15...	2030	82	86	7.2	24.5	7.4	88	22	18	276	98
JULY 01...	1445	18	256	7.5	26.0	6.8	84	58	48	336	96

Table 3.--Physical properties, selected field constituents, and concentration of suspended sediment of water at selected sites--Continued

SITE 2 BRUSHY CREEK NEAR HAILEYVILLE											
DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	pH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	BICAR- BONATE FET-FLD (MG/L AS HCO3)	ALKA- LITY FIELD (MG/L AS CAC03)	SEDI- MENT, SUS- PENDED (MG/L)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
NOV, 1978											
DEC	1445	23	124	7.2	10.5	8.4	76	25	21	34	73
06...	1100	3.6	132	6.9	7.0	9.2	77	31	25	53	99
13...	1030	1.8	132	7.1	3.5	10.2	76	29	24	44	98
20...	1200	.73	134	7.1	13.0	8.5	83	38	32	53	97
28...	1230	.60	140	7.1	5.0	8.8	70	42	35	39	99
JAN, 1979											
16...	1355	17	148	7.1	2.0	12.7	93	42	34	75	91
25...	1110	37	61	7.1	2.5	13.5	98	18	15	173	76
FEB											
13...	1515	130	104	7.2	3.0	13.0	98	15	12	50	91
22...	1106	29	140	7.1	7.5	--	--	26	21	27	85
27...	1244	793	51	7.2	4.5	--	--	14	12	--	--
MAR											
07...	1204	57	73	6.9	10.5	--	--	22	18	49	90
12...	1015	17	110	7.1	9.5	--	--	29	24	58	87
19...	1143	13	135	7.2	15.0	--	--	40	33	68	91
29...	1315	123	85	7.0	16.5	9.4	97	28	23	98	95
APR											
12...	1100	143	130	7.1	17.0	8.9	95	46	38	90	92
17...	1100	19	--	7.2	20.5	--	--	42	34	18	85
23...	1445	79	105	6.9	18.5	7.7	85	34	28	--	--
26...	1000	28	120	7.2	19.0	7.4	81	45	37	17	92
MAY											
07...	1100	27	157	7.4	18.5	8.0	88	59	48	88	96
15...	1100	37	83	7.1	19.5	7.9	87	29	24	42	96
23...	1342	508	72	7.3	21.0	7.8	89	27	22	--	--
30...	0930	151	75	7.5	21.0	8.0	91	26	21	115	94
JUNE											
05...	1006	58	100	7.3	23.0	7.0	83	36	30	75	96
12...	1107	55	100	7.2	23.0	6.8	79	37	31	48	96
18...	1230	10	123	7.2	27.0	7.1	90	50	41	36	93
22...	1020	4.3	135	7.0	27.5	5.3	68	54	45	34	89
27...	1108	4.5	169	7.1	26.0	6.3	78	70	58	41	98
JULY											
05...	1430	1.5	178	7.2	31.0	6.6	90	74	61	51	91

Table 3.--Physical properties, selected field constituents, and concentration of suspended sediment of water at selected sites--Continued

SITE 2 BRUSHY CREEK NEAR HAILEYVILLE											
DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	pH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	BICAR- BONATE FET-FLD (MG/L AS HC03)	ALKA- LINITY FIELD (MG/L AS CAC03)	SEDI- MENT, SUS- PENDED (MG/L)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
JULY, 1979											
11...	1430	4.9	180	7.2	30.5	4.1	55	78	64	101	84
19...	1135	1.3	248	7.2	26.0	3.4	42	110	89	71	89
31...	1120	1.1	235	7.4	28.5	5.1	67	96	78	44	95
AUG											
08...	1220	.33	250	7.3	29.0	5.3	70	100	85	46	96
13...	1045	.13	270	6.9	25.0	2.8	34	110	88	68	94
16...	1215	.05	248	7.5	30.0	5.5	72	110	89	55	94
21...	1400	.00	280	7.3	29.0	4.3	56	140	114	69	96
29...	1045	.11	242	7.1	25.0	3.5	43	110	88	57	94
SEPT											
06...	1515	.13	215	7.3	25.5	4.3	53	--	73	72	96
13...	1100	.00	260	6.9	25.5	7.6	94	120	99	--	--
26...	1130	.60	230	7.4	21.5	6.1	70	97	80	66	97
OCT											
03...	1155	.03	228	7.4	23.5	7.8	93	95	78	44	93
NOV											
06...	1105	1.3	138	7.2	12.0	7.6	71	57	47	84	98
14...	1230	.04	148	7.1	8.0	6.4	54	59	48	41	98
20...	1500	.02	155	7.3	19.0	7.3	78	63	52	68	97
27...	1215	1.0	158	7.4	11.0	7.5	68	63	52	49	97
DEC											
06...	1155	.32	155	7.0	7.0	7.4	61	66	54	35	100
13...	1150	.48	151	7.0	7.0	7.8	63	66	54	43	100
19...	1400	1.0	162	7.3	7.0	9.0	78	73	60	44	100
26...	1045	12	190	7.2	9.0	10.1	87	70	57	79	99
JAN, 1980											
02...	1120	2.5	230	7.4	7.0	11.2	92	81	66	40	98
09...	1150	1.0	233	7.5	5.0	10.9	84	--	74	38	97
17...	1015	.66	250	7.4	8.0	10.0	84	--	84	47	95
23...	0815	40	197	6.8	5.0	11.2	88	--	49	70	98
FEB											
05...	1025	3.1	165	6.3	4.5	12.6	96	--	32	32	95
12...	1200	80	110	6.9	2.0	13.8	99	--	15	43	90
19...	1245	12	118	7.0	6.0	12.0	98	--	19	35	93
26...	1200	4.4	123	7.2	6.5	10.8	87	--	20	43	96
MAR											
04...	1250	2.0	139	7.2	9.5	11.8	104	--	27	40	96

Table 3.--Physical properties, selected field constituents, and concentration of suspended sediment of water at selected sites--Continued

SITE 2 BRUSHY CREEK NEAR HAILEYVILLE

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	pH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	BICAR- BONATE FET-FLD (MG/L AS HCO3)	ALKA- LINITY FIELD (MG/L AS CAC03)	SEDI- MENT, SUS- PENDED (MG/L)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
MAR, 1980											
11...	1230	.94	141	6.9	10.5	8.2	73	--	32	37	98
18...	1045	1.9	152	6.9	12.0	6.5	60	--	35	71	98
25...	1030	.80	166	6.9	11.0	5.5	50	--	37	65	97
APR											
02...	1115	.87	173	7.1	13.0	8.6	81	--	41	70	95
08...	1300	2.2	177	7.2	19.0	7.8	84	--	44	52	91
15...	1150	12	210	7.4	12.5	9.5	89	--	52	59	90
22...	1215	4.9	205	7.3	22.0	7.9	90	--	54	47	86
29...	1425	53	100	6.8	20.0	8.0	88	--	22	82	97
MAY											
03...	1420	718	77	6.9	20.0	8.0	87	--	18	205	95
13...	1235	9.1	107	6.8	24.0	7.2	85	--	29	47	95
20...	0920	239	72	6.7	21.0	7.8	87	--	18	104	94
27...	1115	19	100	6.9	26.0	6.6	80	--	29	60	96
JUNE											
03...	1255	39	86	6.7	25.5	6.6	80	--	22	59	96
11...	1115	4.4	105	6.8	25.0	5.9	70	--	30	37	78
18...	1130	1.8	118	6.8	25.5	3.9	47	--	37	39	87
25...	1125	1.2	136	6.9	29.0	5.8	74	--	40	30	91
JULY											
02...	1105	.14	148	7.0	31.0	5.6	75	--	48	35	90
OCT											
27...	1620	97	162	7.2	14.0	8.6	83	46	38	344	98
NOV											
06...	1530	.91	118	6.4	15.0	8.0	78	29	24	51	99
DEC											
03...	1457	.70	137	7.5	8.0	10.8	90	44	--	15	86
JAN, 1981											
02...	1610	2.5	124	7.4	6.0	12.0	96	27	22	9	98
FEB											
03...	1508	.96	136	7.4	5.5	12.5	98	40	33	13	96
MAR											
02...	1700	272	84	7.1	12.5	9.8	92	18	15	87	96
04...	1705	861	73	5.9	12.0	9.8	94	16	13	171	94
APR											
03...	1400	27	96	7.4	20.0	8.4	93	29	24	29	96
16...	1445	4.0	145	7.7	19.5	8.6	92	52	43	33	98

Table 3.--Physical properties, selected field constituents, and concentration of suspended sediment of water at selected sites--Continued

SITE 2 BRUSHY CREEK NEAR HAILEYVILLE											
DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	pH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	BICAR- BONATE FET-FLD (MG/L AS HCO3)	ALKA- LINITY FIELD (MG/L AS CAC03)	SEDI- MENT, SUS- PENDED (MG/L)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
APR, 1981											
24....	1530	121	87	7.2	21.5	7.5	84	24	20	87	96
MAY											
01....	1105	5.4	102	7.2	24.5	5.9	70	34	28	58	97
JUNE											
02....	1515	213	102	7.3	25.0	6.5	78	32	26	199	98
JULY											
07....	1400	3.5	155	7.8	28.0	7.6	96	54	44	53	98
AUG											
05....	1400	2.5	81	7.8	33.0	9.0	122	27	22	31	91
31....	1230	2.7	78	7.3	28.0	6.8	86	30	25	51	95
SEPT											
21....	1315	.00	98	7.7	26.0	6.4	78	44	36	--	--

Table 3.--Physical properties, selected field constituents, and concentration of suspended sediment of water at selected sites--Continued

SITE 3 PEACEABLE CREEK NEAR HAILEYVILLE

DATE	TIME	STREAM- FLOW INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	pH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	BICAR- BONATE FET-FLD (MG/L AS HCO3)	ALKA- LINITY FIELD (MG/L AS CAC03)	SEDI- MENT, SUS- PENDED (MG/L)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
JULY, 1978											
06....	1440	.30	185	7.5	31.0	6.9	94	65	53	--	--
AUG											
02....	0900	--	202	7.8	--	--	--	81	66	--	--
21....	1600	--	220	7.8	31.0	8.3	114	89	73	--	--
NOV											
30....	1115	3.7	225	7.4	10.5	8.2	75	42	34	--	--
DEC											
06....	1300	.32	210	7.1	7.0	8.2	67	45	37	53	98
13....	1230	.42	218	7.2	6.0	8.6	69	54	44	--	--
20....	1545	.32	201	7.1	14.5	8.9	88	52	42	61	96
28....	1330	.48	187	7.4	6.0	11.3	93	61	50	--	--
JAN, 1979											
04....	1055	.64	215	7.6	2.0	11.2	81	--	--	44	91
16....	1537	6.2	210	7.1	2.0	11.9	87	44	36	75	93
25....	1423	14	142	7.1	2.0	12.9	93	25	20	--	--
FEB											
13....	1145	83	124	7.3	1.5	12.6	91	22	18	185	73
22....	1337	36	170	7.0	8.0	--	--	25	20	86	92
27....	1400	514	75	7.3	5.5	--	--	24	20	187	96
MAR											
06....	1002	74	120	7.3	7.0	--	--	29	24	55	95
12....	1210	10	170	7.1	12.0	--	--	34	28	66	92
19....	1653	347	125	6.9	15.0	--	--	30	25	--	--
20....	1411	2820	54	6.5	13.0	8.7	84	19	16	689	91
29....	1810	141	93	6.9	16.0	9.0	93	24	20	95	93
APR											
12....	1415	219	99	7.1	18.0	7.4	80	29	24	174	96
17....	1400	23	--	7.1	21.0	--	--	48	39	46	97
23....	1715	18	190	7.0	19.0	7.5	82	54	44	52	96
26....	1200	11	182	7.2	20.0	7.8	87	54	44	54	96
MAY											
07....	1413	48	128	7.2	20.0	7.2	81	40	33	78	95
15....	1400	6.7	161	7.2	22.0	7.3	84	49	40	92	87
23....	1651	367	92	7.0	21.5	7.3	84	28	23	175	96
30....	1245	92	100	7.2	21.5	7.3	84	33	27	135	99
JUNE											
05....	1405	22	160	7.1	22.0	6.4	75	52	42	70	89

Table 3.--Physical properties, selected field constituents, and concentration of suspended sediment of water at selected sites--Continued

SITE 3 PEACEABLE CREEK NEAR HAILEYVILLE											
DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	pH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	BICAR- BONATE FET-FLD (MG/L AS HCO3)	ALKAL- INITY FIELD (MG/L AS CACO3)	SEDI- MENT, SUS- PENDED (MG/L)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
JUNE, 1979	12... 1340	52	115	7.0	23.5	7.3	86	38	32	69	93
	18... 1345	13	144	7.2	27.0	7.0	89	47	38	60	94
	22... 1430	4.6	160	7.1	28.0	6.4	83	54	44	56	95
	27... 1355	12	173	7.0	25.0	5.8	70	47	39	134	97
	JULY										
JULY	05... 1545	1.2	205	8.3	30.0	9.2	123	66	54	75	85
	11... 1430	5.0	180	7.1	30.5	4.1	55	78	64	--	--
	11... 1635	18	86	6.9	28.5	5.0	66	33	27	159	96
	19... 1405	4.4	132	7.2	27.0	6.2	78	52	43	62	89
	31... 1250	.89	180	7.3	29.0	6.1	80	66	54	85	94
AUG	08... 1328	.48	195	7.4	30.5	7.3	99	74	61	42	98
	13... 1245	.17	230	7.4	26.0	7.9	98	77	63	42	97
	16... 1355	.12	215	7.6	31.0	7.8	105	83	68	42	93
	21... 1600	.13	220	7.8	31.0	8.3	114	89	73	40	96
	29... 1155	.75	214	7.4	26.5	5.6	71	86	71	42	96
SEPT	06... 1235	.67	220	7.4	27.0	6.8	86	89	73	41	91
	13... 1250	.18	220	7.5	23.0	6.5	76	88	72	43	92
	20... 1240	.46	224	7.4	20.0	7.3	82	93	76	114	99
	26... 1315	.42	215	7.5	21.0	7.1	81	84	69	305	11
	OCT										
OCT	03... 1000	.15	224	7.4	--	6.6	73	89	73	--	--
	09... 1330	.03	255	7.7	16.0	8.7	90	99	81	60	97
	17... 1150	.05	315	7.4	19.0	7.9	87	95	78	170	98
	24... 1235	3.4	245	7.2	16.0	4.8	49	95	78	38	92
	NOV										
NOV	06... 1310	1.2	222	7.3	12.0	8.4	78	63	52	60	99
	14... 1400	.48	235	7.4	9.5	9.6	85	62	51	38	100
	20... 1610	.48	240	7.1	16.0	5.8	59	65	53	39	96
	27... 1410	.89	245	7.1	10.5	6.9	62	69	57	33	95
	DEC										
DEC	06... 1220	.75	229	7.2	7.5	10.4	87	72	59	29	98
	13... 1315	2.5	221	7.3	6.5	9.6	77	72	59	41	99
	19... 1605	.89	250	7.4	7.0	12.0	98	88	72	31	72
	26... 1150	7.1	250	7.3	9.0	8.2	70	62	51	44	100
	JAN, 1980										
02... 1245		2.2	220	7.2	7.0	10.8	89	58	48	37	100

Table 3.---Physical properties, selected field constituents, and concentration of suspended sediment of water at selected sites--Continued

SITE 3 PEACEABLE CREEK NEAR HAILEVILLE											
DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCTI- VANCE (US/CM)	pH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	BICAR- BONATE FET-FLD (MG/L AS HCO3)	ALKA- LINITY FIELD (MG/L AS CAC03)	SEDI- MENT, SUS- PENDED (MG/L)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
JAN, 1980	09...		255	7.3	4.0	10.2	77	--	43	--	--
	17...	1.2	240	7.4	10.0	9.7	86	--	43	66	94
	23...	12	268	7.1	5.5	11.7	92	--	52	50	95
	FEB										
FEB	05...	1.5	340	7.2	8.0	11.4	95	--	47	44	97
	12...	16	95	6.7	3.0	13.2	97	--	16	59	93
	19...	3.4	205	7.1	9.0	11.4	100	--	37	40	89
	26...	1.5	217	7.3	7.5	11.2	92	--	43	35	89
MAR	04...	.89	224	7.2	7.0	11.1	92	--	44	28	85
	11...	1.5	225	7.2	10.5	9.0	80	--	47	25	90
	18...	4.4	238	7.2	13.0	9.1	85	--	50	30	85
	25...	5.8	244	7.2	11.0	8.4	76	--	53	35	91
APR	01...	2.5	260	7.2	13.5	9.1	87	--	50	30	89
	08...	.54	289	7.2	16.0	7.5	76	--	53	26	94
	15...	.36	300	7.2	11.5	8.0	73	--	56	9	88
	22...	.75	313	7.3	19.0	6.9	74	--	57	19	95
MAY	29...	6.7	330	7.2	20.5	7.6	84	--	62	25	98
	02...	697	112	6.8	17.0	6.6	68	--	23	165	54
	13...	1.2	151	7.3	23.0	8.7	100	--	41	33	76
	20...	127	99	6.9	20.0	7.6	83	--	26	146	88
JUNE	27...	8.3	167	6.9	27.0	5.6	69	--	38	61	90
	03...	21	116	6.8	25.0	5.6	67	--	34	--	--
	11...	1.5	131	6.8	23.0	5.9	68	--	39	66	96
	18...	.15	142	6.9	25.0	4.6	55	--	46	36	97
JULY	25...	.75	158	7.0	28.0	5.6	71	--	50	27	89
	03...	.04	165	7.1	28.0	4.6	58	--	59	19	70
	04...	.70	195	--	14.0	8.8	84	--	--	31	99
	1700	.14	267	7.3	7.0	7.7	63	68	56	21	95
JAN, 1981	1315	.73	230	7.1	4.5	11.4	88	59	48	16	99

Table 3.--Physical properties, selected field constituents, and concentration of suspended sediment of water at selected sites--Continued

SITE 3 PEACEABLE CREEK NEAR HAILEYVILLE											
DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCTI- VANCE (US/CM)	pH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	BICAR- BONATE FET-FLD (MG/L AS HCO3)	ALKA- LITY FIELD (MG/L AS CACO3)	SEDI- MENT, SUS- PENDED (MG/L)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
FEB, 1981	1315	.68	160	7.6	5.0	13.2	102	52	43	11	96
MAR 04...											
MAR 03...	1425	34	130	7.2	12.0	9.0	83	32	26	83	98
APR 06...	1330	22	130	7.4	17.0	7.8	80	41	34	89	95
APR 17...	1540	2.0	156	7.6	22.5	9.1	103	54	44	45	96
MAY 04...	1320	562	200	7.4	20.5	5.4	59	60	49	43	89
MAY 10...	1645	510	90	7.1	17.0	8.2	85	28	23	445	96
MAY 31...	1905	337	102	7.3	21.0	7.2	80	32	26	185	94
JUNE 01...	1345	148	112	7.3	22.5	7.2	84	34	28	118	93
JUNE 07...	1340	2560	85	7.2	23.5	6.0	70	30	25	197	92
JULY 02...	1205	108	140	7.4	26.0	5.8	71	41	34	156	96
AUG 06...	1315	1.5	112	7.8	31.5	8.2	111	42	34	58	96
SEPT 01...	1100	.54	142	7.4	25.5	5.9	71	53	43	22	73
SEPT 21...	1415	.64	155	7.6	27.0	6.8	85	--	--	--	--
MAY, 1982											
MAY 27...	1500	166	241	7.1	26.5	--	--	--	--	--	--

Table 3.--Physical properties, selected field constituents, and concentration of suspended sediment of water at selected sites--Continued

SITE 4 DEER CREEK NEAR MCALESTER											
DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	pH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	BICAR- BONATE FET-FLD (MG/L AS HCO3)	ALKA- LINITY FIELD (MG/L AS CACO3)	SEDI- MENT, SUS- PENDED (MG/L)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
JULY, 1978											
11...	1015	--	470	7.8	30.0	7.3	97	110	90	--	--
AUG 08	1300	--	1140	7.4	--	--	--	--	--	--	--
NOV 30...	0900	1.7	335	7.0	10.0	4.2	38	65	53	--	--
DEC 07...	1330	4.6	632	7.4	5.0	6.0	48	120	102	--	--
14...	1430	2.0	710	7.5	3.5	6.6	50	120	96	226	97
21...	1300	2.1	785	7.6	9.5	9.2	82	130	103	138	89
29...	1130	4.2	740	7.4	6.0	6.5	53	140	112	140	94
JAN, 1979											
04...	1255	3.0	880	7.2	1.5	6.5	47	--	--	89	96
16...	1100	2.2	350	7.2	1.0	5.7	41	87	71	--	--
26...	1213	16	474	7.4	1.0	--	--	110	86	93	93
FEB 06...	1217	13	290	7.3	8.5	--	--	72	59	--	--
16...	1215	11	256	7.5	3.0	9.2	69	62	51	72	93
23...	1255	772	79	6.5	9.0	--	--	23	19	700	95
28...	1530	93	150	7.3	7.0	--	--	34	28	140	92
MAR 06...	1217	21	290	7.3	8.5	--	--	--	59	67	94
13...	1257	3.0	620	7.2	14.5	--	--	150	126	182	92
20...	0743	953	70	6.8	13.5	--	--	29	24	452	90
30...	1220	26	322	7.2	17.5	6.2	66	83	68	123	96
APR 13...	1430	22	198	7.2	19.0	6.8	75	55	45	--	--
18...	0800	6.1	--	7.1	19.0	--	--	120	99	--	--
24...	1145	7.8	579	7.0	19.0	3.3	36	110	90	126	98
26...	1513	3.4	522	7.2	20.0	3.2	36	140	112	132	98
MAY 08...	1230	4.7	405	7.1	22.0	3.3	39	94	77	100	95
15...	1638	2.6	515	7.2	23.5	3.4	40	120	96	67	98
30...	1510	31	186	7.4	22.0	5.0	59	62	51	99	97
JUNE 06...	1303	8.1	641	7.3	23.0	4.9	58	130	109	--	--
12...	1637	17	200	7.3	24.0	5.2	62	67	55	84	96
18...	1645	2.6	1110	7.4	26.5	4.9	61	130	133	162	99
22...	1730	2.3	1040	7.5	29.0	6.4	84	--	--	162	100

Table 3.--Physical properties, selected field constituents, and concentration of suspended sediment of water at selected sites--Continued

SITE 4 DEER CREEK NEAR McALESTER											
DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	pH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	BICAR- BONATE FET-FLD (MG/L AS HCO3)	ALKA- LINITY FIELD (MG/L AS CACO3)	SEDI- MENT, SUS- PENDED (MG/L)	SED. SUSP. SIEVE DIAM., % FINER THAN .062 MM
JUNE, 1979											
JUNE	27...	3.2	371	7.1	26.0	3.3	41	110	90	133	97
JULY	1625										
	1715	.96	148	7.8	31.0	8.9	122	--	--	271	99
	1900	7.0	170	7.0	28.0	2.9	38	58	48	152	97
	1555	2.2	1130	7.3	26.0	3.2	40	150	153	242	98
	1853	1.5	780	7.6	30.0	6.0	80	140	116	129	90
AUG											
	1543	1.4	2250	7.6	29.0	6.0	79	210	219	259	96
	1430	2.2	1700	7.5	27.0	4.6	58	180	185	225	96
	13...	1.2	740	7.4	25.5	1.6	20	170	138	129	99
	0800	64	420	7.4	23.5	1.9	11	120	99	593	89
	0815		585	7.4	28.0	3.6	47	160	130	109	98
	1335	2.2									
SEPT											
	29...										
	0800	2.6	455	7.3	24.0	2.1	25	150	123	74	96
	0730	2.3	560	7.4	20.0	3.2	36	150	124	138	96
	0910	9.8	458	7.2	19.0	3.4	37	130	108	105	96
	21...	2.1	283	7.1	19.0	3.0	33	100	84	107	98
	0805										
OCT											
	27...										
	1750	2.3	340	7.3	19.5	4.6	51	100	82	138	91
	03...	2.3	368	7.0	18.0	4.1	44	86	71	123	96
	09...	55	480	7.1	18.0	3.5	38	120	98	260	82
	17...		270	7.1	16.5	2.8	29	86	71	124	95
	1350	2.0									
NOV											
	24...										
	1705	3.3	420	7.3	11.5	5.2	48	120	98	106	96
	06...	1.6	330	7.2	9.5	5.2	46	110	90	65	97
	1520	11	435	7.4	16.0	4.1	41	140	115	89	98
	1030		370	7.3	7.5	5.2	43	130	100	102	98
	21...	1.1									
	28...										
DEC											
	06...	1.3	560	7.6	8.0	7.2	61	150	120	76	90
	14...	4.0	260	7.3	5.0	7.0	54	79	65	80	90
	20...	2.7	510	7.5	5.5	8.4	81	150	123	63	96
	1215	1.5	370	7.1	10.0	6.4	57	98	80	77	98
	1525										
JAN, 1980											
	26...										
	1640	1.4	500	7.3	6.0	7.3	58	150	123	56	98
	02...	1.4	560	7.4	5.0	11.0	85	--	120	56	93
	09...	1.7	600	7.4	8.0	11.0	95	--	160	108	98
	18...	3.6	320	7.1	6.0	7.2	58	--	67	103	97
	1325										

Table 3.--Physical properties, selected field constituents, and concentration of suspended sediment of water at selected sites--Continued

SITE 4 DEER CREEK NEAR McALESTER											
DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	pH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	BICAR- BONATE FET-FLD (MG/L AS HCO3)	ALKA- LITY FIELD (MG/L AS CACO3)	SEDI- MENT, SUS- PENDED (MG/L)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
FEB, 1980	05...	1.7	625	7.3	5.5	7.6	60	--	120	77	98
	13...	3.3	380	7.3	5.0	13.4	99	--	39	45	88
	19...	1.9	500	7.3	9.0	7.9	69	--	120	29	88
	27...	2.3	559	7.4	5.0	6.6	51	--	140	16	87
MAR											
05...	0855	1.7	528	7.4	6.0	6.6	52	--	140	47	87
12...	0830	2.0	568	7.3	10.0	3.6	32	--	140	40	90
18...	1455	4.4	300	7.1	13.5	3.3	31	--	73	111	96
25...	1550	2.4	575	7.2	12.0	3.2	30	--	140	39	93
APR											
02...	0815	1.6	420	7.2	14.5	3.2	31	--	120	38	89
09...	0820	1.3	579	7.3	14.0	3.0	29	--	160	62	91
16...	0735	1.1	590	7.4	10.5	6.3	56	--	150	49	78
23...	0810	1.3	435	7.2	18.0	5.0	53	--	120	56	85
29...	1655	1.6	390	7.0	22.0	1.8	21	--	100	52	96
MAY											
02...	1317	52	287	7.1	22.0	2.6	30	--	76	297	92
02...	1555	191	226	7.1	18.0	1.5	16	--	69	--	--
14...	0855	1.9	583	7.1	20.0	1.4	15	--	150	38	89
20...	1517	13	170	6.7	20.0	4.3	47	--	45	154	93
27...	1550	2.4	370	7.0	27.0	1.8	22	--	97	62	98
JUNE											
04...	0810	2.3	385	7.1	24.0	2.3	27	--	110	77	98
11...	1625	2.3	595	7.7	27.5	8.4	101	--	140	49	74
18...	1545	7.0	620	7.5	29.0	4.9	63	--	140	49	81
25...	1615	1.9	370	7.3	33.0	6.6	90	--	110	40	93
JULY											
02...	1850	1.4	595	7.8	33.0	11.4	156	--	140	44	89
09...	1625	2.3	580	7.5	32.0	6.2	84	--	140	63	91
16...	1235	1.5	604	7.6	30.0	6.9	90	--	140	57	89
23...	1510	.88	500	7.4	28.0	3.5	44	--	140	46	90

Table 3.--Physical properties, selected field constituents, and concentration of suspended sediment of water at selected sites--Continued

SITE 5 COAL CREEK NEAR SPIRO											
DATE	TIME	STREAM- FLOW INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	pH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	BICAR- BONATE FET-FLD (MG/L AS HCO3)	ALKA- LINITY FIELD (MG/L AS CACO3)	SEDI- MENT, SUS- PENDED (MG/L)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
JULY, 1978											
25...	0815	--	901	8.1	25.0	7.1	--	190	160	--	--
AUG											
24...	1430	--	985	8.3	--	--	--	210	170	--	--
NOV											
15...	1035	4.0	692	7.6	17.0	9.0	87	160	134	--	--
DEC											
04...	0945	1.8	425	7.8	5.5	11.2	90	94	77	132	98
11...	1200	.61	660	8.2	2.5	12.0	91	110	89	69	98
18...	0845	.58	750	7.7	6.0	12.4	100	130	106	78	95
26...	0910	.90	860	7.9	5.0	10.8	85	160	131	101	97
JAN, 1979											
02...	0900	4.6	403	7.5	5	13.5	94	--	42	96	95
17...	0910	5.0	480	7.8	1.5	13.4	97	89	73	108	92
22...	1545	13	242	7.6	3.0	--	--	42	34	61	86
29...	1005	4.3	352	7.7	.5	13.8	94	54	44	--	--
FEB											
01...	1335	3.2	390	7.8	1.0	13.9	98	77	63	78	93
08...	1442	7.6	330	7.4	1.0	--	--	48	39	84	93
26...	1605	76	155	7.1	7.0	--	--	21	17	70	96
MAR											
05...	1415	27	214	7.3	7.5	--	--	31	25	35	97
09...	1320	13	290	7.4	10.0	--	--	47	39	40	98
15...	1400	7.8	408	7.7	10.5	--	--	69	57	67	95
23...	1002	39	210	7.1	11.5	9.8	92	33	27	--	--
27...	1140	56	175	7.0	10.0	11.2	98	24	20	123	95
APR											
04...	0935	16	--	7.6	10.0	10.0	89	44	36	24	100
09...	0845	7.4	340	7.5	14.0	9.2	89	59	48	47	100
16...	1425	7.9	343	8.0	21.0	9.6	108	73	60	42	95
20...	1310	5.3	369	7.4	21.5	8.5	97	69	57	51	98
25...	1645	7.3	395	--	23.0	9.2	108	--	--	172	98
MAY											
02...	1615	6.7	420	7.7	17.5	8.0	85	94	77	70	99
05...	0900	25	244	7.5	14.0	9.5	92	45	37	48	93
17...	1420	4.6	439	7.7	24.5	8.0	96	89	73	78	95
29...	1621	61	237	7.4	22.5	7.5	87	44	36	65	96

Table 3.--Physical properties, selected field constituents, and concentration of suspended sediment of water at selected sites--Continued

SITE 5 COAL CREEK NEAR SPIRO											
DATE	TIME	STREAM- FLOW INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	pH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	BICAR- BONATE FET-FLD (MG/L AS HCO3)	ALKA- LINITY FIELD (MG/L AS CACO3)	SEDI- MENT, SUS- PENDED (MG/L)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
JUNE, 1979											
09...	1415	22	301	7.6	26.5	7.6	95	57	47	46	98
15...	1420	6.1	401	7.6	27.0	7.7	97	68	56	74	99
20...	1052	4.6	475	7.6	27.0	6.5	82	90	74	--	--
26...	1050	3.5	559	7.6	24.0	7.5	89	100	82	140	95
30...	0950	2.7	545	7.7	26.0	7.4	92	100	83	120	98
JULY											
02...	1325	2.7	525	7.7	28.0	7.0	91	100	82	134	92
10...	1432	8.6	290	7.4	26.0	6.8	85	53	43	143	90
16...	1400	1.7	510	7.7	29.5	6.7	87	100	84	95	98
26...	1150	2.2	560	7.7	27.5	7.2	92	110	89	115	98
AUG											
01...	1400	2.7	480	7.7	28.0	7.3	94	94	77	77	98
07...	0850	2.0	520	7.6	27.5	6.1	77	110	91	86	98
15...	0855	4.4	520	7.7	26.0	6.8	84	120	95	101	99
20...	0830	1.5	620	7.7	26.0	6.8	84	120	98	94	98
28...	0840	3.2	500	7.7	25.0	6.7	82	120	94	90	98
SEPT											
04...	0930	1.7	610	7.6	26.5	6.3	78	130	108	104	99
17...	0910	1.0	760	7.9	18.5	8.4	90	160	130	108	99
24...	0815	1.0	700	7.8	19.5	7.9	87	150	122	95	98
28...	0820	.89	780	7.8	20.0	7.8	86	160	130	93	99
OCT											
01...	1006	.90	770	7.7	23.0	7.6	89	160	131	105	99
05...	0820	1.5	790	7.9	16.0	9.4	97	170	139	130	99
16...	0955	1.6	830	7.8	17.0	7.5	78	170	140	106	99
25...	1000	3.7	800	7.7	14.0	7.3	71	170	139	110	99
NOV											
05...	1355	1.0	730	7.7	13.0	7.9	75	150	123	107	94
13...	0815	.77	700	7.8	8.0	9.8	82	140	115	57	98
19...	1620	1.0	800	7.9	16.0	9.3	93	160	131	84	99
26...	1330	1.3	650	7.8	10.0	10.6	94	130	107	65	98
DEC											
03...	1445	.96	770	7.9	6.0	11.9	94	140	115	110	100
10...	1330	.90	750	7.8	9.0	15.8	135	150	123	75	100
11...	1015	.90	693	7.8	10.5	9.6	86	140	115	112	100
17...	1255	1.4	590	7.8	3.0	15.7	114	110	90	98	100
31...	0845	1.9	520	7.7	6.0	13.2	105	120	98	78	100

Table 3.--Physical properties, selected field constituents, and concentration of suspended sediment of water at selected sites--Continued

SITE 5 COAL CREEK NEAR SPIRO											
DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCTI- VANCE (US/CM)	pH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	BICAR- BONATE FET-FLD (MG/L AS HCO3)	ALKA- LITY FIELD (MG/L AS CACO3)	SEDI- MENT, SUS- PENDED (MG/L)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
JAN, 1980	1215	1.7	560	8.2	5.0	13.2	102	110	90	62	99
	1400	1.7	800	7.7	5.0	13.5	105	--	100	55	100
	1315	2.5	510	7.9	7.0	11.8	97	--	74	55	100
	1030	2.1	600	8.1	1.0	12.4	86	--	61	62	100
FEB											
0700	1145	1.4	590	8.0	3.0	13.4	98	--	83	69	100
1400	1310	4.1	340	7.6	6.0	13.4	106	--	43	60	97
0925	0925	2.2	430	7.7	9.0	10.8	94	--	65	6	88
1235	1235	1.5	550	7.8	11.0	12.0	108	--	83	1	92
MAR											
0600	1415	1.4	590	8.1	9.5	12.4	109	--	76	2	71
1400	0700	1.6	539	7.8	8.0	10.6	88	--	95	8	80
1256	1256	1.9	558	7.8	14.0	10.7	102	--	77	10	95
1255	1255	12	300	7.5	13.0	10.6	100	--	43	36	83
APR											
0700	1445	3.2	437	7.8	21.0	9.5	107	--	73	16	98
1400	1030	2.1	560	7.9	9.0	10.6	91	--	99	3	98
1210	1210	1.9	583	7.9	20.5	9.7	105	--	100	11	81
1420	1420	2.5	615	8.0	17.5	10.1	105	--	110	8	94
MAY											
0500	1015	5.2	320	7.4	19.0	7.7	83	--	52	--	--
1200	1007	2.0	580	7.5	23.5	6.5	76	--	100	11	89
1358	1358	12	325	7.5	22.0	8.4	95	--	53	30	80
1135	1135	9.6	340	7.5	20.0	8.6	93	--	52	29	91
JUNE											
0200	1305	2.4	515	7.5	25.5	6.8	82	--	79	13	84
1000	1240	1.3	720	7.8	24.0	7.2	84	--	120	11	79
1700	1245	.83	745	7.5	24.0	6.0	70	--	120	11	79
1115	1115	1.5	610	7.6	28.0	5.7	72	--	90	48	94
JULY											
0740	0740	.77	750	7.4	28.5	4.6	58	--	130	21	93
1400	0850	.42	955	7.7	28.0	5.5	88	--	150	11	93
2100	0845	.42	805	7.6	28.0	5.4	68	--	160	12	91
0830	0830	.53	920	7.7	26.0	4.8	59	--	150	10	91
AUG											
0825	0825	.29	980	7.7	27.0	5.4	67	--	160	6	82
0923	0923	.22	1070	7.7	27.0	5.7	70	--	150	10	87

Table 3.--Physical properties, selected field constituents, and concentration of suspended sediment of water at selected sites--Continued

SITE 5 COAL CREEK NEAR SPIRO												
DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	pH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	BICAR- BONATE FET-FLD (MG/L AS HCO3)	ALKA- LITY FIELD (MG/L AS CACO3)	SEDI- MENT, SUS- PENDED (MG/L)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	
AUG, 1980	0855	.24	1060	7.8	27.0	5.6	69	--	160	5	63	
	18... 0850	.12	1050	7.8	25.0	6.1	73	--	170	8	74	
	0855	.15	1040	7.7	25.0	5.3	63	--	160	9	77	
SEPT	0935	.02	950	7.7	23.0	5.7	66	--	140	--	--	
18... OCT	1600	1.1	850	7.4	14.0	8.2	79	170	139	11	93	
24... NOV	1309	.53	860	7.4	15.5	5.5	54	180	146	--	--	
10... DEC	1249	1.6	440	7.0	7.5	--	--	82	68	22	93	
12...1981	1155	.47	822	7.9	4.5	11.1	85	160	130	4	97	
JAN, 1981	09...	5.4	450	7.7	1.0	13.6	93	100	83	34	98	
FEB	1455	5.0	400	7.7	11.5	11.2	101	77	63	15	96	
MAR	1700	1.4	639	7.6	19.5	5.4	58	150	119	10	80	
11... APR	1040	5.6	710	7.8	23.0	6.4	74	150	126	8	92	
21... MAY	1245	35	350	7.6	17.5	8.4	88	57	47	130	86	
09... MAY	1345	3.8	364	7.7	18.0	8.6	90	70	57	14	97	
20... MAY	1745	59	200	7.4	24.0	7.6	89	32	26	74	82	
24... MAY	1145	128	153	7.0	21.0	8.0	89	30	25	104	91	
29... JUNE	1220	2.2	580	7.8	28.5	5.4	69	110	92	8	89	
23... JULY	1415	.96	975	7.8	30.0	6.2	80	180	145	11	96	
21... AUG	1420	1.0	880	7.9	27.0	6.3	77	160	129	6	93	
24... SEPT	1255	1.2	740	7.9	22.5	6.8	76	150	121	15	94	
16... NOV	0900	--	540	7.6	13.0	8.5	83	--	--	--	--	

Table 3.--Physical properties, selected field constituents, and concentration of suspended sediment of water at selected sites--Continued

SITE 6 FOURCHE MALINE NEAR WILBURTON												
DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	pH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	BICAR- BONATE FET-FLD (MG/L AS HCO3)	ALKA- LITY FIELD (MG/L AS CACO3)	SEDI- MENT, SUS- PENDED (MG/L)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	
AUG, 1978	1000	--	155	7.1	--	--	--	70	57	--	--	
NOV 28...	1015	12	122	6.9	9.0	8.2	72	42	34	142	98	
DEC 01...	0800	3.8	138	6.8	8.5	8.6	74	39	32	--	--	
10...	1200	5.0	158	7.3	--	10.9	79	46	38	--	--	
15...	1045	2.7	159	7.4	3.5	11.8	89	52	43	19	97	
15...	1230	--	159	7.4	3.5	11.8	89	--	43	--	--	
22...	1015	7.9	148	6.9	5.5	8.3	67	42	34	--	--	
JAN, 1979	1013	2.8	152	6.9	2.0	11.2	81	--	37	23	93	
09...	1005	7.2	140	7.1	4.0	13.0	101	37	30	39	83	
18...	1025	18	56	7.0	--	13.2	91	21	17	204	95	
FEB 03...	1258	14	62	7.0	1.0	13.2	94	19	16	30	80	
09...	0952	15	52	7.4	0	--	--	21	17	31	79	
16...	0900	33	85	7.2	2.0	12.8	93	17	14	--	--	
24...	1108	67	65	7.0	7.5	--	--	20	16	--	--	
MAR 02...	1255	232	39	6.8	8.0	--	--	12	10	40	83	
10...	1325	35	59	6.9	10.5	--	--	17	14	33	84	
16...	1320	34	63	6.6	11.5	--	--	19	16	33	84	
22...	1330	505	54	6.6	14.5	9.4	94	17	14	--	--	
26...	1320	201	44	6.6	13.0	10.8	104	10	8	51	81	
APR 02...	1411	306	63	6.6	15.0	9.6	96	12	10	68	81	
07...	0935	57	60	6.9	14.0	10.0	98	19	16	--	--	
14...	1024	236	54	6.5	15.0	9.4	94	10	8	70	56	
21...	1435	62	74	6.7	19.0	7.5	82	23	19	38	92	
28...	1245	19	76	7.4	17.0	8.2	85	26	21	29	98	
MAY 04...	1340	172	56	6.8	16.0	8.4	87	20	16	47	88	
10...	1255	26	75	6.9	22.0	7.1	82	21	17	42	94	
18...	1330	15	79	6.9	22.0	6.9	80	21	17	41	88	
25...	1217	239	40	6.8	18.5	8.9	96	12	10	44	84	
JUNE 01...	1240	243	41	6.8	20.0	9.1	101	12	10	47	93	
07...	1445	1700	46	6.8	26.0	8.6	109	13	11	154	88	

Table 3.--Physical properties, selected field constituents, and concentration of suspended sediment of water at selected sites--Continued

SITE 6 FOURCHE MALINE NEAR WILBURTON

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	pH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	BICAR- BONATE FET-FLD (MG/L AS HCO3)	ALKA- LITY FIELD (MG/L AS CACO3)	SEDI- MENT, SUS- PENDED (MG/L)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
JUNE, 1979											
11...	1330	243	36	6.7	21.5	8.2	93	12	10	40	86
16...	1115	30	70	7.0	24.0	6.7	80	21	17	23	98
25...	1118	16	73	6.8	24.5	5.9	71	26	22	31	94
JULY											
05...	1030	2.6	100	6.7	27.0	3.9	49	33	27	64	85
11...	1030	1.9	97	6.8	26.5	3.6	45	38	31	48	95
19...	0930	3.7	97	6.8	24.0	5.3	64	37	30	62	96
30...	1709	8.5	100	6.9	28.5	5.6	74	36	30	--	--
AUG											
09...	1020	2.0	146	6.9	26.5	4.1	51	49	40	41	97
14...	0835	2.8	110	6.9	24.0	4.4	52	45	37	44	98
17...	1030	2.0	111	7.0	26.0	5.2	64	39	32	40	93
22...	1600	1.7	130	6.9	26.0	4.1	51	42	34	40	90
30...	0850	9.2	88	6.8	25.0	5.3	65	32	26	66	98
SEPT											
01...	1140	2.1	102	6.8	25.0	4.2	51	36	30	--	--
14...	1010	1.3	123	7.0	20.0	5.1	57	48	39	39	95
21...	1130	.97	138	6.7	20.0	4.7	52	44	36	37	95
27...	1355	.61	144	7.0	19.0	3.8	42	53	43	32	96
OCT											
02...	1300	.61	165	6.8	19.5	2.7	30	56	46	24	96
09...	1019	.34	153	6.6	18.0	4.0	43	62	51	55	96
18...	1010	.12	196	6.8	17.0	1.2	13	75	62	51	96
24...	0930	.19	220	6.9	13.5	.8	8	90	74	43	98
NOV											
07...	1400	5.2	94	6.9	10.0	8.2	73	26	21	28	99
14...	1000	3.3	103	6.9	7.0	9.2	76	31	25	36	99
20...	1125	3.8	109	6.8	14.0	5.7	55	31	25	37	91
28...	1345	5.9	134	7.2	7.5	10.6	87	36	30	19	100
DEC											
07...	0915	5.2	136	7.0	5.0	11.0	86	41	34	17	98
14...	1235	19	140	7.1	5.0	10.8	83	39	32	25	99
19...	1045	8.1	195	7.3	2.5	11.5	84	57	47	27	99
27...	1030	16	220	7.1	8.0	10.3	86	24	20	47	98
JAN, 1980											
02...	0840	9.2	133	7.2	5.0	11.0	86	34	28	28	100
10...	1230	5.9	190	7.2	6.0	10.9	88	--	36	27	96

Table 3.--Physical properties, selected field constituents, and concentration of suspended sediment of water at selected sites--Continued

SITE 6 FOURCHE MALINE NEAR WILBURTON

DATE	TIME	STREAM- FLOW INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	pH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	BICAR- BONATE FET-FLD (MG/L AS HCO3)	ALKA- LITY FIELD (MG/L AS CACO3)	SEDI- MENT, SUS- PENDED (MG/L)	SED. SUSP. STIEVE DIAM. % FINER THAN .062 MM
JAN, 1980	16...	5.2	170	7.0	9.0	9.0	78	--	36	35	92
	22...	7.4	165	7.0	7.0	10.2	84	--	35	32	94
	FEB										
FEB	04...	3.3	205	7.2	3.0	13.2	97	--	44	28	93
	12...	18	148	6.9	1.0	13.4	94	--	27	--	--
	0953	9.4	130	6.9	5.0	12.0	94	--	22	16	82
	25...	5.4	128	6.8	6.5	11.2	90	--	23	17	81
MAR											
	03...	4.8	156	7.1	4.5	12.3	95	--	28	15	83
	13...	3.5	175	7.0	11.5	9.6	87	--	32	12	94
	20...	7.9	155	7.0	13.0	8.9	85	--	28	20	82
	0912	12	235	7.0	10.0	9.6	85	--	42	20	99
APR											
	03...	4.6	187	7.2	17.0	9.0	93	--	33	25	99
	11...	4.0	180	6.9	17.0	6.9	72	--	35	20	99
	0945	2.8	178	6.8	17.0	6.9	71	--	35	30	100
	1147	1.9	181	6.7	19.5	4.7	51	--	37	30	99
MAY											
	29...	25	134	6.8	16.0	8.1	82	--	26	22	99
	09...	38	97	6.7	18.5	8.2	87	--	18	29	95
	16...	288	126	6.8	18.0	8.4	89	--	27	68	86
JUNE											
	22...	112	89	6.8	19.0	8.0	86	--	19	47	92
	30...	25	142	6.7	23.0	6.5	75	--	26	31	91
	09...	3.3	144	6.6	23.0	4.3	49	--	34	30	94
JULY											
	16...	1.2	163	6.8	26.0	4.4	54	--	38	24	95
	23...	9.2	113	6.7	26.0	5.8	71	--	24	44	93
	30...	3.5	146	6.8	29.0	3.0	38	--	32	26	88
AUG											
	10...	.55	170	6.9	30.0	4.9	64	--	40	15	87
	17...	.10	195	6.9	27.5	4.0	50	--	50	14	86
	0950	.03	250	7.0	23.0	5.2	60	--	58	7	87
	0940	1.1	155	6.7	26.0	3.8	46	--	47	16	92
AUG											
	08...	.09	188	6.7	28.5	4.7	59	--	52	11	49
	13...	.10	242	6.9	26.0	4.5	55	--	60	7	77
	21...	.08	465	7.0	27.0	4.2	52	--	86	5	59

Table 3.--Physical properties, selected field constituents, and concentration of suspended sediment of water at selected sites--Continued

SITE 6 FOURCHE MALINE NEAR WILBURTON											
DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	pH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	BICAR- BONATE FET-FLD (MG/L AS HCO3)	ALKA- LITY FIELD (MG/L AS CACO3)	SEDI- MENT, SUS- PENDED (MG/L)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
AUG, 1980											
27...	1606	.04	218	6.7	28.0	4.0	51	--	62	16	89
OCT											
29...	1000	1.5	155	6.3	11.0	6.1	54	41	34	72	99
NOV											
08...	1615	.62	193	6.5	13.5	5.0	48	66	54	15	97
DEC											
23...	1630	2.9	95	6.9	4.0	10.6	82	24	20	8	96
JAN, 1981											
23...	1530	.56	120	7.0	7.0	9.6	79	37	30	7	89
FEB											
12...	1330	24	170	7.1	3.0	12.9	94	42	34	18	91
MAR											
13...	1400	23	106	7.2	12.0	10.9	100	21	17	17	92
APR											
09...	1315	22	87	7.0	18.0	8.6	91	21	17	20	92
23...	1625	219	88	7.0	19.5	7.7	83	23	19	81	90
23...	2000	187	84	7.0	19.0	8.0	86	22	18	70	91
MAY											
14...	1510	67	65	7.0	18.5	8.1	86	17	14	122	34
29...	1740	138	85	7.0	22.5	7.4	86	23	19	440	93
JUNE											
10...	1700	210	48	6.7	23.5	7.5	88	12	9	42	82
JULY											
15...	1330	2.7	150	7.2	29.5	3.8	49	31	25	21	95
AUG											
11...	1215	2.2	185	7.0	25.0	36.0	43	48	39	22	96
SEPT											
01...	1600	.56	250	7.1	25.5	3.8	46	62	51	11	88
23...	1730	.56	260	7.4	21.0	4.2	46	68	56	--	--

Table 3.--Physical properties, selected field constituents, and concentration of suspended sediment of water at selected sites--Continued

SITE 7 RED OAK CREEK NEAR RED OAK

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	pH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	BICAR- BONATE FET-FLD (MG/L AS HC03)	ALKA- LINITY FIELD (MG/L AS CAC03)	SEDI- MENT, SUS- PENDED (MG/L)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
DEC, 1978										
10...	1430	1.0	123	6.0	1.5	13.0	21	17	45	90
15...	1515	.33	142	7.1	4.0	12.1	28	23	30	87
22...	1400	.40	153	7.3	7.0	12.2	35	29	--	--
28...	0945	.46	170	8.1	4.5	12.7	41	34	--	--
JAN, 1979										
09...	1450	.80	150	7.1	1.0	13.6	--	26	30	87
18...	1340	95	76	7.3	3.0	13.5	24	20	138	86
FEB										
03...	1020	3.8	130	7.2	.0	13.2	28	23	47	90
09...	1248	5.9	135	7.4	.0	--	28	23	45	89
16...	1500	1.9	122	7.6	6.0	12.2	29	24	47	92
24...	0920	15	66	7.1	7.0	14.4	15	12	66	83
MAR										
02...	0845	29	52	7.1	7.5	--	17	14	26	99
10...	1255	1.9	88	--	11.0	--	25	21	28	99
16...	1145	.55	137	6.9	11.5	--	33	27	26	99
22...	1000	21	75	6.9	14.5	8.9	89	19	30	90
26...	1055	6.8	75	7.1	12.5	11.6	23	19	33	81
APR										
02...	1045	35	63	7.0	13.5	10.0	25	21	40	89
07...	1415	5.8	104	7.5	19.0	10.7	27	22	27	100
14...	1452	16	85	7.0	20.0	9.2	24	20	26	95
21...	1100	27	76	6.9	19.0	8.2	25	21	61	94
28...	0910	6.7	83	7.1	13.5	9.2	35	29	30	87
MAY										
04...	1020	42	83	7.3	15.0	9.4	31	25	45	95
10...	1045	.67	118	7.0	23.0	6.3	40	33	34	96
18...	1046	1.1	102	7.0	22.0	6.6	41	34	36	93
25...	0947	10	78	7.3	18.0	8.6	28	23	35	94
JUNE										
01...	1007	5.2	93	7.3	22.0	8.4	31	25	38	99
07...	1029	676	47	7.0	21.0	8.0	20	15	--	--
11...	1105	9.6	99	6.9	21.5	7.1	31	25	39	85
16...	0905	.55	120	7.3	24.0	7.0	37	30	18	98
25...	0925	1.3	137	7.1	24.0	5.4	46	38	25	87
JULY										
12...	1250	.02	220	7.0	29.0	4.2	65	53	46	90

Table 3.--Physical properties, selected field constituents, and concentration of suspended sediment of water at selected sites--Continued

SITE 7 RED OAK CREEK NEAR RED OAK											
DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	pH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	BICAR- BONATE FET-FLD (MG/L AS HCO3)	ALKA- LINITY FIELD (MG/L AS CACO3)	SEDI- MENT, SUS- PENDED (MG/L)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
JULY, 1979											
30...	1555	.25	130	7.2	29.5	5.8	76	41	34	75	95
SEPT											
06...	0900	.02	106	6.9	23.5	4.3	51	43	36	54	92
NOV											
07...	1655	.01	107	6.7	9.5	3.4	30	35	29	55	97
14...	0840	.05	124	7.0	5.0	8.9	70	42	34	--	--
20...	0930	.01	134	6.9	14.0	4.2	40	47	39	40	96
27...	0912	.13	220	7.4	9.0	9.5	82	72	59	43	95
DEC											
07...	1145	.01	197	7.0	9.0	10.3	88	70	57	51	94
13...	0940	14	156	7.0	5.0	12.0	92	56	46	81	96
19...	0930	.06	325	7.0	3.0	11.5	85	100	82	49	96
26...	0915	1.0	136	--	5.0	10.1	78	55	45	85	100
JAN, 1980											
03...	1350	.08	175	7.1	5.0	9.8	76	50	41	41	99
09...	0930	.03	210	7.3	3.0	12.0	88	--	43	45	97
16...	0905	.13	181	7.1	10.0	11.0	97	--	43	41	82
22...	0900	3.9	245	8.0	7.0	10.8	88	--	64	41	99
FEB											
04...	0910	.17	225	7.8	.5	14.2	97	--	54	52	83
12...	0915	14	144	7.1	1.0	14.2	99	--	24	34	90
19...	0840	1.6	173	7.1	4.5	12.1	94	--	29	21	81
25...	1005	.32	200	7.1	6.0	12.2	96	--	36	19	82
MAR											
03...	0950	.10	220	7.7	4.0	13.3	100	--	41	16	79
13...	0835	.32	237	7.3	10.5	9.5	85	--	46	10	93
18...	0855	6.6	260	7.2	7.0	9.0	73	--	51	74	86
26...	1100	8.1	120	7.0	9.0	9.6	83	--	22	153	97
APR											
03...	0945	12	142	7.0	16.5	8.7	89	--	29	49	100
11...	0850	.08	183	7.2	16.5	8.1	84	--	42	12	99
17...	0840	.10	205	7.4	16.5	8.3	84	--	46	10	98
24...	0920	.02	243	7.0	19.5	6.7	73	--	55	6	97
29...	0945	.13	280	7.3	16.5	7.3	74	--	68	7	98
MAY											
09...	0950	1.2	144	6.9	16.5	8.2	83	--	30	25	87
16...	129		52	6.5	17.5	8.7	91	--	13	153	92

Table 3.--Physical properties, selected field constituents, and concentration of suspended sediment of water at selected sites--Continued

SITE 7 RED OAK CREEK NEAR RED OAK											
DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	pH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	BICAR- BONATE FET-FLD (MG/L AS HCO3)	ALKA- LITY FIELD (MG/L AS CAC03)	SEDI- MENT, SUS- PENDED (MG/L)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
MAY, 1980											
22...	0915	30	111	6.9	19.0	8.1	87	--	29	60	90
30...	1310	1.6	158	7.1	24.0	8.0	94	--	43	20	92
JUNE											
09...	1215	.01	195	7.0	23.0	6.7	76	--	53	13	80
23...	0935	10	130	6.7	25.0	6.2	74	--	28	22	91
30...	0940	.46	155	6.8	28.0	5.0	63	--	37	9	96
OCT											
25...	1620	<.01	300	7.4	12.0	7.3	68	93	76	112	93
NOV											
21...	1244	.03	258	7.5	5.0	9.0	69	120	98	54	40
DEC											
04...	1400	.02	229	7.7	10.0	7.6	67	93	76	92	75
JAN, 1981											
15...	1330	.03	205	7.2	6.0	10.0	80	55	45	5	88
FEB											
10...	1300	36	124	6.8	5.0	11.6	91	30	25	251	98
MAR											
12...	1315	1.6	138	7.7	13.0	13.0	123	38	31	20	93
APR											
27...	1450	.49	142	7.3	23.0	5.4	62	51	42	31	95
MAY											
22...	1550	.25	148	7.4	22.0	8.6	98	41	34	11	90
29...	1250	59	84	7.3	21.0	8.0	90	27	22	101	91
29...	2105	727	51	7.1	21.5	7.7	88	21	17	1480	90
JUNE											
08...	1500	19	92	7.3	26.0	7.6	94	27	22	38	81
JULY											
10...	1350	--	205	7.4	29.0	6.8	--	--	--	--	--
AUG											
19...	1300	.94	112	7.3	23.5	6.7	78	43	35	48	96
SEPT											
23...	1300	.01	114	7.0	20.0	6.4	69	45	37	32	94
DEC											
16...	1545	1.1	148	7.7	6.5	13.2	109	--	--	--	--

Table 3.--Physical properties, selected field constituents, and concentration of suspended sediment of water at selected sites--Continued

SITE 8 CASTON CREEK AT WISTER											
DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	pH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	BICAR- BONATE FET-FLD (MG/L AS HCO3)	ALKA- LITY FIELD (MG/L AS CACO3)	SEDI- MENT, SUS- PEN- DED (MG/L)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
JULY, 1978											
17...	1700	4.3	122	--	33.0	--	--	34	28	--	--
AUG											
15...	1200	.90	140	7.2	27.5	--	--	41	34	--	--
NOV											
21...	1300	10	138	6.6	13.0	9.4	89	22	18	--	--
DEC											
05...	1300	7.1	113	7.1	8.5	10.4	91	20	16	--	--
12...	1255	--	128	7.0	4.5	12.8	100	--	15	23	98
13...	1330	15	128	7.0	4.5	12.8	100	18	15	--	--
19...	1530	5.0	112	7.0	11.0	9.0	83	18	15	27	83
27...	1545	10	122	7.1	5.0	12.6	99	22	18	24	90
JAN, 1979											
03...	1300	62	97	6.2	2.5	13.7	100	--	11	26	90
10...	1435	25	117	7.6	1.5	14.3	103	--	--	30	91
FEB											
02...	1400	38	57	6.7	1.0	14.1	101	12	10	28	78
10...	1450	35	75	7.0	2.0	--	--	13	11	6	43
15...	1040	117	67	8.3	9.0	11.5	101	26	21	36	85
21...	1450	42	86	6.9	8.0	--	--	18	15	45	55
MAR											
01...	1515	868	51	6.7	6.5	--	--	10	8	--	--
08...	1017	119	62	6.6	8.0	--	--	11	9	20	98
14...	1428	41	78	6.9	14.5	--	--	15	12	--	--
17...	1255	29	83	6.9	13.0	--	--	18	15	25	91
28...	1520	87	77	8.6	16.5	9.9	103	20	16	22	94
APR											
03...	1445	224	44	7.2	13.0	11.0	106	17	14	--	--
06...	1550	103	74	6.9	17.0	10.8	112	18	15	22	82
11...	1735	1200	55	6.7	18.0	9.1	99	15	12	--	--
19...	1622	77	80	7.2	22.0	--	--	18	15	--	--
MAY											
01...	1420	32	77	7.3	18.0	9.0	96	20	16	26	89
09...	1135	52	77	7.1	23.0	7.8	92	21	17	32	87
14...	1005	142	60	7.6	18.5	8.9	96	17	14	30	91
19...	1140	26	89	5.2	23.0	5.7	67	21	17	29	87
26...	1658	589	38	7.0	16.5	9.2	96	13	11	48	89

Table 3.--Physical properties, selected field constituents, and concentration of suspended sediment of water at selected sites--Continued

SITE 8 CANTON CREEK AT WISTER											
DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	pH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	BICAR- BONATE FET-FLD (MG/L AS HCO3)	ALKA- LITY FIELD (MG/L AS CACO3)	SEDI- MENT, SUS- PENDED (MG/L)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
JUNE, 1979											
04...	1430	372	55	7.1	22.5	8.3	96	15	12	39	92
08...	1800	28	62	7.0	26.0	7.4	92	17	14	40	93
14...	1320	29	78	7.2	26.0	7.6	94	25	21	47	96
21...	1205	4.8	105	7.1	29.0	6.7	87	36	30	--	--
29...	1455	2.6	115	7.4	32.0	7.3	101	41	34	41	93
JULY											
03...	1235	1.6	110	7.4	29.5	7.2	95	49	26	46	91
17...	1115	2.1	123	7.0	29.5	6.2	80	47	39	34	85
23...	1618	1.7	122	7.4	31.0	7.6	104	46	38	35	92
AUG											
02...	1408	9.6	95	6.9	29.5	6.0	79	34	28	30	88
07...	1440	4.0	115	7.4	31.0	7.3	99	38	31	28	87
15...	1620	2.4	126	7.3	29.5	6.2	82	50	41	36	92
20...	1225	1.2	125	7.3	28.5	6.7	86	45	37	29	84
28...	1330	8.3	89	6.9	28.0	6.4	83	33	27	48	90
SEPT											
05...	1350	4.4	101	7.2	30.0	7.0	93	34	28	24	93
12...	1155	1.6	118	7.1	24.5	6.5	78	45	37	24	94
18...	1355	1.6	119	7.4	22.5	8.6	100	44	36	19	89
25...	1300	2.4	119	7.3	22.0	8.1	93	41	34	25	86
OCT											
02...	1015	1.1	125	6.9	21.0	7.3	83	45	37	22	95
11...	1340	1.1	131	7.2	19.0	9.0	99	42	34	19	91
23...	0955	9.3	124	7.1	16.0	7.8	80	43	35	17	90
NOV											
09...	1010	12	98	7.1	11.5	9.4	89	28	23	10	97
13...	1415	4.2	101	7.3	10.5	12.2	109	26	21	4	93
19...	1210	3.6	107	7.1	14.0	9.4	90	29	24	6	92
29...	1010	5.0	100	7.8	5.0	13.3	102	28	23	4	92
DEC											
05...	0940	3.2	85	7.6	5.0	14.6	114	27	22	20	94
12...	1240	4.2	107	7.2	8.0	12.0	100	29	24	23	94
18...	1225	17	106	7.3	3.0	13.0	95	26	21	16	95
28...	0840	39	97	6.3	8.0	12.3	102	18	15	28	96
JAN, 1980											
04...	0940	16	103	7.0	4.5	13.2	101	21	17	19	95
15...	1145	6.6	123	7.2	9.0	12.4	107	--	22	--	--

Table 3.--Physical properties, selected field constituents, and concentration of suspended sediment of water at selected sites--Continued

SITE 8 CASTON CREEK AT WISTIER											
DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	pH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	BICAR- BONATE FET-FLD (MG/L AS HCO3)	ALKA- LINITY FIELD (MG/L AS CAC03)	SEDI- MENT, SUS- PENDED (MG/L)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
JAN, 1980	0840	13	126	7.1	9.0	10.8	92	--	22	28	90
	1040	13	140	6.9	4.0	12.7	95	--	20	24	92
FEB	1200	95	140	6.6	2.0	13.4	98	--	14	76	94
	1315	60	110	6.8	8.0	11.2	94	--	--	17	89
	1300	21	111	6.8	11.0	11.1	100	--	14	13	93
	1320	11	117	7.1	10.0	10.4	92	--	17	13	93
MAR	1315	7.2	134	7.2	13.0	11.6	110	--	19	12	91
	1700	31	189	7.1	13.0	8.7	81	--	--	36	98
	1215	419	80	6.8	10.0	10.7	95	--	9	--	--
	1225	160	86	7.0	11.5	10.8	97	--	11	30	95
APR	1455	22	108	7.2	18.0	10.3	108	--	18	23	79
	1220	26	112	7.0	18.0	10.1	105	--	19	11	98
	1045	26	114	6.7	20.5	6.9	76	--	24	11	98
	1530	294	78	6.7	18.0	8.9	94	--	16	115	91
MAY	1300	44	86	6.9	20.5	8.8	97	--	17	22	91
	1240	28	100	6.7	21.0	6.8	76	--	24	21	92
	1000	44	82	6.9	20.0	8.4	91	--	16	24	93
	0855	20	96	6.5	24.0	6.3	74	--	21	18	90
JUNE	1220	6.6	115	6.9	28.0	6.6	84	--	29	--	--
	1150	1.7	135	7.0	26.0	6.2	75	--	34	12	86
	1410	664	55	6.7	23.0	7.7	89	--	11	214	88
	1155	10	74	6.7	29.5	5.7	73	--	18	63	94
JULY	1000	.62	118	6.7	29.0	3.0	38	--	36	12	81
	1120	.11	148	6.7	30.5	5.6	74	--	51	8	90
	1045	4.2	152	6.9	28.5	4.6	58	--	50	9	95
	1020	.41	161	6.9	26.0	5.0	61	--	46	3	68
OCT	1215	.66	216	6.7	15.5	8.2	82	29	--	22	95
	1600	7.5	134	6.8	9.0	8.6	73	34	28	26	96

Table 3.--Physical properties, selected field constituents, and concentration of suspended sediment of water at selected sites--Continued

SITE 8 CASTON CREEK AT WISTER											
DATE	TIME	STREAM- FLOW INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCTI- VANCE (US/CM)	pH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	BICAR- BONATE FET-FLD (MG/L AS HCO3)	ALKA- LINITY FIELD (MG/L AS CACO3)	SEDI- MENT, SUS- PENDED (MG/L)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
DEC, 1980											
16...	1415	16	115	7.1	10.5	10.3	92	24	20	16	94
JAN, 1981											
22...	1310	3.7	134	7.4	8.0	11.2	93	27	22	8	93
FEB											
17...	1610	29	113	7.2	10.0	11.8	104	18	15	14	96
MAR											
16...	1400	24	106	7.5	23.5	10.8	106	21	17	20	96
APR											
20...	1255	16	114	7.4	24.0	7.8	92	32	26	20	86
MAY											
11...	1745	707	55	7.0	19.5	8.8	96	14	11	82	93
18...	1640	69	72	7.3	24.0	8.2	95	20	16	28	96
30...	1705	364	75	7.4	21.5	8.4	94	21	17	45	88
JUNE											
23...	1040	16	87	7.2	29.0	6.8	87	20	16	24	93
JULY											
20...	1410	1.5	134	7.7	35.5	7.7	110	46	38	9	90
AUG											
17...	1420	1.7	134	7.3	27.0	6.6	81	48	39	24	95
SEPT											
14...	1610	.75	149	7.6	28.0	7.9	100	51	42	24	91

Table 3.--Physical properties, selected field constituents, and concentration of suspended sediment of water at selected sites--Continued

SITE 9 MORRIS CREEK NEAR HOWE											
DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	pH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	BICAR- BONATE FET-FLD (MG/L AS HCO3)	ALKA- LITY FIELD (MG/L AS CACO3)	SEDI- MENT, SUS- PENDED (MG/L)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
NOV, 1978											
NOV, 1978	29...	0945	5.5	59	7.6	9.0	10.4	91	14	11	--
DEC	05...	1100	--	72	5.6	8.0	9.8	84	10	8	--
DEC	12...	1000	--	56	6.8	4.0	12.6	96	--	7	95
DEC	12...	1030	--	56	6.8	4.0	12.6	96	9	7	--
DEC	19...	1015	--	60	6.7	9.0	11.8	104	13	11	96
DEC	27...	1110	1.4	64	6.8	3.5	11.7	88	13	11	--
JAN, 1979											
JAN, 1979	03...	1105	--	--	6.7	2.0	13.6	98	--	--	95
JAN, 1979	10...	1225	--	64	7.0	2.0	13.4	96	--	6	91
FEB											
FEB	02...	1130	--	32	6.6	2.0	13.9	101	8	7	71
FEB	10...	1216	--	39	6.7	1.5	--	--	9	7	76
FEB	15...	1350	--	37	6.5	10.0	11.5	104	8	7	81
FEB	21...	1145	--	41	6.2	6.0	--	--	8	7	80
MAR											
MAR	01...	1205	--	23	6.7	7.5	--	--	8	7	77
MAR	08...	1402	--	37	6.4	9.5	--	--	8	7	--
MAR	14...	1217	--	42	6.6	12.5	--	--	10	8	91
MAR	17...	1055	7.9	47	6.7	12.0	--	--	12	10	87
MAR	28...	1230	--	42	6.8	14.5	10.2	100	11	9	71
APR											
APR	03...	1200	--	29	7.0	11.0	12.4	114	11	9	--
APR	06...	1320	39	45	6.7	14.0	11.0	107	12	10	--
APR	11...	1156	--	52	6.7	15.0	9.1	92	15	12	86
APR	19...	1320	--	60	6.7	18.0	--	--	16	13	96
MAY											
MAY	01...	1115	16	41	7.2	18.0	8.8	94	16	13	83
MAY	09...	1455	21	44	7.0	23.0	8.9	105	14	11	96
MAY	14...	1235	--	43	7.1	18.0	9.2	98	15	12	52
MAY	19...	1005	--	54	7.0	22.0	8.0	92	17	14	91
MAY	26...	1300	--	37	6.9	16.5	9.2	95	14	11	90
JUNE											
JUNE	04...	1132	--	46	7.0	19.5	8.7	97	15	12	98
JUNE	08...	1325	91	43	6.8	23.0	8.5	100	14	11	92
JUNE	14...	1020	12	54	7.0	23.0	7.8	90	18	15	92

Table 3.--Physical properties, selected field constituents, and concentration of suspended sediment of water at selected sites--Continued

SITE 9 MORRIS CREEK NEAR HOWE											
DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	pH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	BICAR- BONATE FET-FLD (MG/L AS HCO3)	ALKA- LITY FIELD (MG/L AS CACO3)	SEDI- MENT, SUS- PENDED (MG/L)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
JUNE, 1979											
21...	1025	--	72	6.9	27.5	6.8	86	21	17	19	89
29...	1240	1.4	79	6.9	28.0	7.0	91	24	20	34	90
JULY											
03...	0947	--	80	6.9	26.0	6.0	75	29	24	25	92
17...	1320	--	102	6.8	29.0	5.2	68	38	31	23	92
23...	1455	--	93	7.0	29.0	6.6	87	36	30	25	92
30...	1035	--	56	6.8	29.0	6.6	87	19	16	37	96
AUG											
02...	1200	--	64	6.9	27.0	4.5	56	26	21	29	95
07...	1540	--	76	7.0	30.5	7.0	93	31	25	22	92
15...	1730	--	83	7.1	28.0	6.8	87	32	26	30	92
20...	1415	.19	87	7.0	27.5	5.5	71	35	29	30	94
28...	1640	7.6	41	6.7	25.0	7.5	91	14	11	72	93
SEPT											
05...	1130	2.3	58	6.8	26.0	6.3	80	22	18	29	96
12...	1010	--	67	6.9	22.0	6.4	74	27	22	26	98
18...	1040	.41	71	7.0	18.5	7.5	80	28	23	17	95
25...	1040	--	72	6.9	18.0	7.2	76	26	21	29	98
OCT											
01...	1510	.50	78	7.0	24.0	7.5	90	25	21	24	97
11...	1505	--	90	6.9	19.0	7.0	77	32	26	23	96
19...	1050	--	98	6.9	19.5	6.7	74	38	31	19	96
23...	1150	--	105	6.9	15.0	5.6	55	44	36	19	96
NOV											
09...	0730	--	71	6.9	11.0	8.4	78	25	21	22	95
13...	1525	--	71	7.0	10.0	10.2	91	25	21	20	91
19...	1035	--	83	6.9	13.5	8.2	77	28	23	19	93
29...	1222	1.4	88	6.8	5.0	9.6	73	29	24	24	93
DEC											
05...	1200	--	75	6.9	6.0	11.3	91	21	17	12	99
12...	1005	--	72	6.9	8.0	11.2	93	23	19	17	99
18...	1025	--	66	6.9	2.0	14.0	99	20	16	18	96
28...	1005	8.5	54	6.8	9.0	13.1	111	12	10	23	99
JAN, 1980											
04...	1118	--	66	6.8	5.0	12.4	96	17	14	19	99
15...	1045	--	68	6.8	9.0	11.6	100	--	12	27	89
21...	1030	4.9	79	6.7	9.0	12.2	104	--	16	23	90

Table 3.--Physical properties, selected field constituents, and concentration of suspended sediment of water at selected sites--Continued

SITE 9 MORRIS CREEK NEAR HOWE											
DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	pH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	BICAR- BONATE FET-FLD (MG/L AS HCO3)	ALKA- LITY FIELD (MG/L AS CACO3)	SEDI- MENT, SUS- PEN- DED (MG/L)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
JAN, 1980											
JAN, 1980	0925	--	68	6.7	4.5	12.2	93	--	13	22	90
FEB 11...	1040	--	85	6.4	2.0	13.8	99	--	10	12	98
FEB 15...	1100	16	62	6.4	9.5	11.0	96	--	9	14	96
FEB 22...	1135	--	60	6.6	11.5	10.1	93	--	11	20	90
FEB 29...	1130	--	65	6.7	10.0	10.4	92	--	15	21	85
MAR 07...	1120	2.6	69	6.9	12.0	10.7	96	--	14	18	80
MAR 17...	1010	--	83	6.8	13.0	8.4	78	--	16	31	90
MAR 24...	0955	--	77	6.6	10.0	10.1	89	--	14	51	92
MAR 31...	0950	--	63	6.8	9.5	11.0	96	--	12	17	80
APR 10...	1200	8.2	60	6.8	16.0	8.9	90	--	11	22	63
APR 18...	1030	--	52	6.7	15.5	10.0	98	--	11	16	97
APR 25...	0925	--	55	6.6	19.5	7.5	82	--	14	21	69
MAY 01...	1230	74	71	6.9	18.0	8.6	91	--	17	153	96
MAY 08...	1040	--	53	6.7	18.5	8.7	93	--	13	17	97
MAY 15...	1100	--	61	6.7	20.5	7.1	78	--	17	15	95
MAY 21...	1155	--	53	6.6	19.5	8.1	87	--	14	23	89
MAY 29...	0955	--	58	6.5	23.0	7.5	86	--	16	20	92
JUNE 05...	0955	3.5	63	6.6	25.0	6.4	76	--	18	15	98
JUNE 12...	1000	--	69	6.7	23.0	6.5	74	--	19	16	75
JUNE 19...	1145	--	80	6.7	25.0	6.4	76	--	23	11	98
JUNE 26...	1015	.27	87	6.7	28.5	5.4	68	--	26	8	98
OCT 21...	1855	.70	71	6.8	17.0	7.4	76	16	13	17	98
NOV 21...	1535	2.6	74	6.7	6.5	10.5	84	17	14	6	90
DEC 10...	1547	21	55	6.0	9.0	10.7	91	9	7	11	94
JAN, 1981	1637	.93	65	6.5	3.5	12.5	93	15	12	6	90
FEB 18...	1330	12	55	6.9	11.0	11.0	98	12	10	8	96
FEB 28...	1543	181	61	6.7	13.5	9.8	93	15	12	137	92

Table 3.--Physical properties, selected field constituents, and concentration of suspended sediment of water at selected sites--Continued

SITE 9 MORRIS CREEK NEAR HOWE											
DATE	TIME	STREAM- FLOW, IN- STANTANEOUS (CFS)	SPE- CIFIC CON- DUCTANCE (US/CM)	pH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	BICAR- BONATE FET-FLD (MG/L AS HC03)	ALKA- LITY FIELD (MG/L AS CAC03)	SEDI- MENT, SUS- PENDED (MG/L)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
MAR, 1981	1230	75	49	6.4	10.5	10.8	96	10	8	22	92
	1245	8.3	69	7.2	13.5	10.9	105	15	12	13	94
APR	1640	6.4	56	7.1	19.5	8.8	96	16	13	10	90
	1245	2.4	70	7.0	21.5	6.0	67	23	19	13	94
MAY	1210	360	37	6.9	15.0	9.9	97	12	10	132	75
	1500	44	42	7.1	18.5	9.2	98	13	11	14	82
JUNE	1510	24	50	7.2	23.0	8.3	95	13	11	19	92
	1830	--	51	7.1	20.0	8.2	91	--	--	4	82
JULY	1250	1400	42	7.0	21.0	8.0	89	16	13	391	72
	1530	1860	36	6.9	21.0	7.7	86	14	11	342	99
AUG	1600	4.2	60	7.3	29.5	6.8	87	19	16	16	90
	1715	.84	90	6.8	33.5	7.3	101	23	19	17	77
SEPT	1615	2.1	75	7.1	26.0	5.9	72	27	22	18	94
	1500	2.3	70	7.1	25.0	7.2	86	24	20	23	94
OCT	1900	--	44	6.7	18.0	8.5	90	--	--	--	--

Table 3.--Physical properties, selected field constituents, and concentration of suspended sediment of water at selected sites--Continued

SITE 10 SUGARLOAF CREEK NEAR MONROE												
DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	pH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	BICAR- BONATE FET-FLD (MG/L AS HCO3)	ALKA- LINITY FIELD (MG/L AS CACO3)	SEDI- MENT, SUS- PENDED (MG/L)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	
DEC, 1978												
05...	0900	3.5	71	6.7	8.0	10.0	86	15	12	--	--	
12...	0830	10	73	6.7	4.0	12.2	92	10	8	23	93	
19...	0910	4.7	66	6.7	10.0	7.6	69	10	8	--	--	
27...	0900	2.3	66	7.1	5.0	11.2	88	13	11	17	98	
JAN, 1979												
03...	0905	29	43	6.8	1.5	13.8	99	--	--	11	100	
10...	1009	11	70	7.1	2.5	13.4	98	--	7	11	94	
FEB												
02...	0950	18	40	7.3	2.0	13.5	97	9	7	31	81	
10...	0958	13	46	6.8	3.0	--	--	9	7	22	81	
15...	1510	84	38	6.7	10.0	11.7	105	8	7	35	80	
21...	1005	31	43	6.6	6.0	--	--	8	7	23	78	
MAR												
01...	0900	469	28	6.7	6.0	--	--	9	7	31	71	
08...	1523	61	41	6.4	10.0	--	--	9	7	14	74	
14...	1030	26	42	6.5	11.0	--	--	11	9	--	--	
17...	0855	20	42	6.6	10.5	--	--	11	9	19	76	
28...	0945	72	42	6.7	13.0	10.4	100	11	9	26	78	
APR												
03...	1007	224	28	7.3	11.0	10.6	96	11	9	--	--	
06...	0955	67	41	6.7	13.0	10.2	97	11	9	--	--	
11...	0934	325	44	6.2	14.0	9.9	99	10	8	70	76	
19...	1105	44	54	6.5	17.0	--	--	13	11	12	79	
MAY												
01...	0900	37	46	7.7	17.0	8.9	93	17	14	13	85	
03...	1345	159	42	7.0	17.0	8.9	94	16	13	42	93	
09...	1615	40	53	7.0	23.0	8.8	103	14	11	24	91	
14...	1502	80	48	7.2	20.0	9.7	106	15	12	27	98	
19...	0905	18	48	7.0	21.5	8.8	101	18	15	22	99	
26...	1200	67	38	6.9	17.0	8.7	91	15	12	24	95	
JUNE												
04...	0948	177	41	6.9	19.0	8.8	97	15	12	17	93	
08...	1200	277	45	6.8	22.5	8.5	98	16	13	22	93	
14...	0830	29	50	6.9	22.5	7.8	90	18	15	30	95	
21...	0930	7.0	60	6.8	27.0	7.9	99	21	17	21	91	
29...	0940	5.2	57	6.6	25.0	6.6	80	21	17	43	91	

Table 3.--Physical properties, selected field constituents, and concentration of suspended sediment of water at selected sites--Continued

SITE 10 SUGARLOAF CREEK NEAR MONROE											
DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	pH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	BICAR- BONATE FET-FLD (MG/L AS HCO3)	ALKA- LINITY FIELD (MG/L AS CACO3)	SEDI- MENT, SUS- PENDED (MG/L)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
JULY, 1979											
03...	0815	2.1	68	6.8	26.5	6.2	78	26	21	36	94
17...	1410	33	75	6.8	27.0	7.5	94	28	23	32	95
23...	1325	23	59	6.7	27.0	7.1	90	21	17	41	96
30...	0930	23	51	6.8	27.0	7.0	89	18	15	42	97
AUG											
02...	1000	14	58	7.0	27.0	6.6	84	22	18	29	97
07...	1620	5.8	62	6.9	29.0	7.2	94	25	21	22	96
15...	1823	3.1	67	7.0	27.5	7.2	91	28	23	20	95
20...	1530	1.7	68	7.0	28.0	6.6	86	27	22	--	--
28...	1540	35	46	6.7	25.5	7.4	91	16	13	86	97
SEPT											
05...	0935	7.7	61	6.8	26.0	6.8	85	25	21	37	96
12...	0835	3.6	63	6.9	24.0	7.1	84	28	23	24	98
18...	0800	2.0	63	6.8	19.0	7.6	82	25	21	41	99
25...	0850	1.8	66	6.8	19.0	7.3	79	26	21	22	95
OCT											
01...	1640	.61	77	6.8	22.0	6.7	78	26	21	23	91
11...	1620	2.3	83	6.8	17.0	7.2	77	30	25	15	94
19...	0915	4.7	79	6.8	19.0	5.3	58	31	25	18	96
23...	1405	3.6	84	6.8	18.0	5.6	60	34	28	19	85
NOV											
09...	1415	3.8	72	6.7	11.5	7.2	68	27	22	26	94
13...	1640	2.0	73	6.9	9.0	8.4	73	26	21	19	96
19...	0855	1.5	73	6.7	12.5	8.0	74	25	21	18	94
29...	1400	3.8	71	6.8	7.0	10.1	81	24	20	22	97
DEC											
05...	1345	3.8	71	6.9	7.0	10.7	88	22	18	20	96
12...	0945	3.3	65	6.9	8.5	12.3	103	20	16	17	93
18...	0855	9.6	72	7.0	2.0	13.0	92	20	16	28	96
28...	1220	35	58	6.7	9.5	12.0	104	14	11	24	96
JAN, 1980											
04...	1230	33	72	6.7	5.0	13.1	102	28	23	21	88
15...	0930	13	57	6.9	10.0	11.8	104	--	16	21	89
21...	1215	19	66	6.6	10.0	11.2	98	--	3	24	89
28...	0840	17	56	6.6	5.5	12.4	97	--	10	20	90
FEB											
11...	0950	57	--	6.8	2.0	14.0	100	--	14	12	95

Table 3.--Physical properties, selected field constituents, and concentration of suspended sediment of water at selected sites--Continued

SITE 10 SUGARLOAF CREEK NEAR MONROE											
DATE	TIME	STREAM- FLOW INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	pH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	BICAR- BONATE FET-FLD (MG/L AS HCO3)	ALKA- LITY FIELD (MG/L AS CACO3)	SEDI- MENT, SUS- PENDED (MG/L)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
FEB, 1980											
15...	0900	81	57	6.5	9.0	11.0	95	--	--	15	94
22...	0900	24	51	6.6	10.0	10.6	94	--	9	15	88
29...	0930	14	55	6.6	11.0	10.2	92	--	9	13	89
MAR											
07...	0920	11	57	6.5	11.0	11.1	100	--	10	10	93
17...	0840	53	62	6.8	13.5	9.4	89	--	12	33	90
24...	0850	116	60	6.6	10.0	10.2	90	--	10	51	95
31...	0855	61	52	6.6	9.5	11.0	96	--	9	13	92
APR											
10...	0935	19	63	6.6	14.0	10.1	97	--	11	17	93
18...	0920	56	53	6.5	15.0	9.9	96	--	11	20	84
25...	0845	20	54	6.5	19.0	8.3	89	--	13	20	82
MAY											
01...	0908	132	64	6.9	17.0	8.6	89	--	15	61	93
08...	0920	31	53	6.6	18.0	8.6	90	--	13	15	98
15...	0855	14	55	6.7	19.5	7.5	81	--	15	17	94
21...	1325	52	51	6.5	19.5	8.4	90	--	12	15	95
29...	1125	64	62	6.5	22.0	7.1	81	--	14	112	98
JUNE											
05...	0835	8.0	66	6.4	25.5	6.4	77	--	18	20	99
12...	0855	2.9	67	6.4	24.0	6.2	72	--	19	14	99
19...	1000	1.6	71	6.5	24.0	6.2	73	--	22	11	98
26...	0820	.52	77	6.5	28.0	4.9	62	--	24	7	97
JULY											
07...	1210	.10	98	6.9	29.0	5.3	68	--	33	8	96
15...	0900	.02	98	6.7	28.0	4.4	56	--	35	7	87
NOV											
19...	1615	4.4	72	6.2	7.0	9.6	78	17	14	4	97
DEC											
11...	1457	31	68	6.8	9.0	11.0	94	11	9	7	92
JAN, 1981											
21...	1156	2.0	70	6.5	5.0	11.0	86	18	15	4	91
FEB											
18...	1100	22	72	5.8	10.0	11.0	96	7	6	6	98
28...	2105	810	49	6.2	13.0	10.1	95	10	8	68	92
MAR											
04...	1450	206	53	7.0	13.0	10.3	100	12	10	22	93

Table 3.--Physical properties, selected field constituents, and concentration of suspended sediment of water at selected sites--Continued

SITE 10 SUGARLOAF CREEK NEAR MONROE											
DATE	TIME	STREAM- FLOW INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	pH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	BICAR- BONATE FET-FLD (MG/L AS HC03)	ALKA- LINITY FIELD (MG/L AS CAC03)	SEDI- MENT, SUS- PENDED (MG/L)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
MAR, 1981											
16...	1505	28	65	6.4	14.0	10.4	100	11	9	8	90
APR											
04...	1315	23	55	7.1	19.5	9.1	99	13	11	10	91
22...	1120	7.0	68	7.1	20.0	7.9	86	22	18	15	98
MAY											
10...	1730	658	40	7.0	16.0	9.4	95	18	15	46	87
20...	1235	33	54	7.1	18.0	9.4	98	17	14	10	97
30...	1115	228	52	7.2	20.0	8.6	94	16	13	36	84
JUNE											
03...	1635	325	55	7.2	23.0	8.3	95	18	15	74	88
06...	1850	2730	47	7.0	21.5	8.4	94	17	14	228	78
24...	1330	8.3	65	7.0	27.0	7.2	89	21	17	14	83
JULY											
21...	1120	4.7	66	7.1	34.0	5.4	75	23	19	9	97
AUG											
18...	1405	7.3	65	7.1	24.5	7.5	88	25	20	16	92
SEPT											
15...	1300	13	65	7.0	24.0	7.0	82	21	17	21	94

Table 3.--Physical properties, selected field constituents, and concentration of suspended sediment of water at selected sites--Continued

SITE 11 OWL CREEK NEAR MCCURTAIN											
DATE	TIME	STREAM- FLOW INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	pH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	BICAR- BONATE FET-FLD (MG/L AS HCO3)	ALKA- LINITY FIELD (MG/L AS CACO3)	SEDI- MENT, SUS- PENDED (MG/L)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
NOV, 1978											
27...	1400	9.0	220	5.9	11.0	8.8	81	18	15	--	--
DEC											
04...	1500	2.4	185	5.7	7.0	10.2	86	14	11	67	99
11...	1150	--	352	7.3	11.5	9.6	87	--	--	--	--
15...	1530	7.8	146	6.6	4.0	12.4	95	14	11	29	100
18...	1300	1.2	146	7.3	7.0	11.6	97	15	12	20	95
26...	1315	1.0	143	6.9	5.5	11.2	90	17	14	23	93
JAN, 1979											
02...	1340	19	230	6.8	1.0	13.2	93	--	--	44	99
17...	1625	16	148	7.0	2.0	12.3	89	16	13	37	85
22...	0902	38	53	7.4	2.0	--	--	15	12	38	87
FEB											
01...	0940	12	150	7.2	0	14.0	96	20	16	43	75
08...	1001	2.9	148	7.0	5.0	--	--	18	15	28	84
20...	1003	14	123	7.2	2.0	--	--	16	13	32	82
MAR											
05...	0958	51	63	7.1	5.5	--	--	13	11	14	100
09...	0957	19	120	7.1	9.5	--	--	18	15	18	98
23...	1520	80	65	6.9	11.5	10.3	97	17	14	36	94
APR											
04...	1420	37	113	7.3	12.0	10.7	100	22	18	17	91
09...	1130	18	127	6.7	17.0	10.2	108	23	19	90	47
16...	0945	25	110	7.0	19.0	9.0	98	19	16	25	97
20...	0930	17	148	6.9	19.5	8.6	94	27	22	26	93
25...	1220	29	119	--	22.0	8.9	103	--	--	26	91
MAY											
02...	1105	15	173	7.4	17.0	8.6	91	39	32	29	86
03...	0925	87	210	7.4	18.0	8.4	90	42	34	49	90
17...	0918	4.3	110	7.3	22.5	8.1	93	28	23	42	89
29...	1135	163	80	7.1	20.5	8.7	98	21	17	30	94
JUNE											
09...	0910	49	112	7.3	24.5	7.7	94	29	24	138	45
15...	1040	7.2	170	7.4	25.0	8.5	102	37	30	41	93
20...	0900	.88	260	7.3	26.0	6.8	85	55	45	32	92
26...	1410	.48	344	7.6	27.0	8.4	105	62	51	44	95
30...	1225	.05	382	7.4	26.0	6.9	86	76	62	62	99

Table 3.--Physical properties, selected field constituents, and concentration of suspended sediment of water at selected sites--Continued

SITE 11 OWL CREEK NEAR MCCURTAIN											
DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	pH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	BICAR- BONATE FET-FLD (MG/L AS HCO3)	ALKA- LINITY FIELD (MG/L AS CACO3)	SEDI- MENT, SUS- PENDED (MG/L)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
JULY, 1979											
02...	1030	.15	392	7.4	26.0	6.4	80	75	62	8	61
10...	1130	42	140	6.8	23.0	6.8	80	26	21	277	97
16...	1150	.01	200	7.3	30.0	6.8	89	44	36	47	96
26...	0932	.02	208	7.2	26.0	6.0	75	49	40	45	97
AUG											
01...	1000	4.3	155	7.3	26.5	7.1	88	37	30	47	97
07...	1230	.75	222	7.5	28.0	7.1	91	51	42	44	97
15...	1415	.05	230	7.6	30.0	8.1	107	56	46	36	92
28...	1130	.04	142	7.0	28.5	5.9	77	40	33	77	99
SEPT											
04...	1247	.07	230	7.4	28.5	6.6	87	70	57	35	92
NOV											
05...	1035	.11	114	6.9	10.5	7.6	68	41	34	31	94
13...	1145	.11	121	7.3	11.0	9.8	89	43	35	31	93
19...	1440	.05	140	7.0	20.0	6.3	68	47	39	23	94
26...	1010	1.8	270	7.4	7.5	9.4	78	64	52	46	96
DEC											
03...	1047	.48	310	7.4	3.5	14.8	108	52	43	37	99
10...	1005	.48	350	7.6	7.0	13.2	107	54	44	41	99
11...	1150	.37	352	7.3	11.5	9.6	87	52	43	53	100
17...	1040	.75	410	--	2.0	14.2	99	46	38	43	100
24...	1020	23	520	7.0	8.0	11.4	96	94	77	37	99
JAN, 1980											
07...	0915	.48	750	8.0	4.0	13.0	98	170	140	82	100
14...	0840	.37	850	7.5	4.0	13.6	101	--	150	108	100
24...	0910	.88	950	7.4	5.5	12.6	100	--	150	106	100
25...	0905	.88	850	7.6	8.0	10.8	92	--	190	120	100
FEB											
07...	0840	.88	520	7.5	2.5	13.8	99	--	73	55	100
14...	1010	17	240	7.1	4.0	12.8	96	--	26	6	92
21...	1425	8.0	268	7.5	13.0	11.2	107	--	30	7	98
28...	0850	5.0	415	7.4	8.5	10.9	93	--	46	4	93
MAR											
06...	1125	.88	426	7.7	7.0	12.3	100	--	47	6	98
14...	0920	.64	460	7.7	10.0	11.0	95	--	55	8	97
21...	1041	10	660	7.8	12.0	10.1	93	--	79	7	98
28...	0940	15	167	7.1	12.5	10.4	97	--	21	19	99

Table 3.--Physical properties, selected field constituents, and concentration of suspended sediment of water at selected sites--Continued

SITE 11 OWL CREEK NEAR McCURTAIN											
DATE	TIME	STREAM- FLOW INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	pH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	BICAR- BONATE FET-FLD (MG/L AS HCO3)	ALKA- LINITY FIELD (MG/L AS CACO3)	SEDI- MENT, SUS- PENDED (MG/L)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
APR, 1980											
07...	0858	5.9	189	7.2	17.0	9.2	95	--	27	23	99
14...	0835	1.1	267	7.4	18.5	10.7	91	--	35	9	97
21...	0917	1.1	407	7.2	18.5	8.4	88	--	47	9	99
28...	1025	2.9	439	7.5	16.0	9.7	97	--	58	56	49
MAY											
02...	0920	448	154	6.9	18.0	7.8	82	--	28	69	95
12...	1250	3.7	238	7.3	24.0	8.2	96	--	35	10	86
19...	1210	38	172	7.1	22.0	8.4	95	--	24	26	89
23...	0900	72	120	7.0	19.0	8.4	90	--	23	31	77
JUNE											
02...	0930	2.9	265	7.2	24.0	7.2	85	--	39	11	90
10...	0945	.32	273	7.1	23.0	7.6	86	--	46	7	76
17...	1023	.03	293	7.0	25.0	6.6	79	--	51	6	58
20...	1518	138	139	6.7	25.0	9.8	117	--	17	61	91
24...	0925	27	217	6.9	26.5	7.1	88	--	26	30	97
JULY											
01...	1155	2.9	330	7.5	30.5	7.4	97	--	37	15	96
14...	1245	.09	475	7.3	30.0	6.7	87	--	64	6	85
21...	1217	.01	460	7.5	30.0	7.7	100	--	74	6	90
28...	1230	9.0	510	7.2	27.0	4.0	49	--	76	9	55
DEC											
08...	1257	164	227	6.4	12.0	8.8	81	22	18	200	91
JAN, 1981											
09...	1400	.38	153	7.3	5.0	11.8	91	33	27	6	97
FEB											
09...	1345	1.4	345	7.4	3.5	12.6	96	49	40	5	98
MAR											
09...	1815	21	160	7.1	9.0	11.4	97	28	23	13	94
APR											
13...	1245	5.3	230	7.8	25.5	8.5	102	37	30	17	94
29...	1245	13	159	7.6	25.0	8.0	95	37	30	19	95
MAY											
09...	2130	1950	46	7.0	16.5	8.4	85	12	10	549	84
12...	1635	50	118	7.1	19.0	9.0	97	22	18	18	93
JUNE											
06...	1345	777	90	7.3	23.0	--	--	26	21	67	91
06...	1615	634	70	7.2	22.5	7.9	90	23	19	220	92

Table 3.--Physical properties, selected field constituents, and concentration of suspended sediment of water at selected sites--Continued

SITE 11 OWL CREEK NEAR MCCURTAIN											
DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	pH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	BICAR- BONATE FET-FLD (MG/L AS HC03)	ALKA- LITY FIELD (MG/L AS CAC03)	SEDI- MENT, SUS- PENDED (MG/L)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
JUNE, 1981											
09...	1500	29	126	7.5	28.5	7.4	95	28	23	23	88
JULY											
13...	1325	1.1	212	8.0	31.5	8.7	116	41	34	19	94
AUG											
13...	1555	2.0	225	7.1	29.0	7.8	100	38	31	58	96
SEPT											
09...	1330	.02	515	7.7	23.5	6.4	74	62	51	7	81
NOV											
17...	1700	7.9	270	7.1	14.0	92.0	90	--	--	--	--

Table 3.--Physical properties, selected field constituents, and concentration of suspended sediment of water at selected sites--Continued

SITE 12 HOLLI-TUSKA CREEK NEAR PANAMA											
DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCTI- VANCE (US/CM)	pH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	BICAR- BONATE FET-FLD (MG/L AS HCO3)	ALKA- LITY FIELD (MG/L AS CACO3)	SEDI- MENT, SUS- PENDED (MG/L)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
NOV, 1978											
DEC 27...	1200	1.7	98	6.5	10.0	9.4	8	12	10	60	91
04...	1300	1.1	85	6.6	6.0	11.8	96	15	12	63	90
11...	1400	.53	114	6.6	3.5	13.0	98	13	11	26	98
18...	1200	.09	114	6.9	6.5	11.4	93	16	13	--	--
26...	1215	.05	128	7.4	5.0	11.6	91	31	25	22	92
JAN, 1979											
02...	1235	1.7	113	6.7	1.0	13.9	99	--	--	22	96
17...	1325	4.0	68	6.9	5.0	12.5	87	13	11	46	87
22...	1345	6.5	90	7.3	2.0	--	--	21	17	41	87
FEB 01...	1135	1.1	80	7.2	.0	14.4	99	17	14	26	86
08...	1235	5.2	68	6.9	5.0	--	--	24	20	39	87
MAR 05...	1145	7.2	63	6.8	6.5	--	--	10	8	34	82
09...	1146	2.5	75	6.8	9.0	--	--	16	13	26	84
15...	1215	.72	115	7.1	11.5	--	--	20	16	28	81
23...	1345	14	74	7.0	11.0	11.0	108	23	19	22	76
27...	1625	11	74	6.7	12.0	10.4	97	20	16	62	70
APR 04...	1130	6.9	--	7.1	10.0	11.6	103	24	20	--	--
09...	1000	2.9	87	6.9	14.0	10.5	102	26	21	--	--
16...	1142	4.8	100	7.2	20.0	9.2	100	27	22	--	--
20...	1440	4.0	102	7.1	22.0	8.2	93	30	25	--	--
25...	1505	3.5	112	7.1	22.0	8.5	99	--	21	24	97
MAY 02...	1403	3.4	110	7.3	17.0	8.8	93	37	30	37	99
05...	1205	7.1	96	7.2	17.0	9.4	98	33	27	31	100
17...	1130	.39	114	7.3	21.0	8.7	98	36	30	42	90
29...	1512	14	79	7.0	21.0	8.2	93	27	22	27	99
JUNE 09...	1115	2.4	97	7.2	25.0	7.8	95	34	28	25	92
15...	1230	.09	100	7.3	26.0	8.5	105	37	30	22	94
JULY 10...	1300	.00	110	7.0	2.5	4.6	58	48	39	--	--
AUG 01...	1225	.70	142	7.1	26.0	5.2	65	57	47	--	--

Table 3.--Physical properties, selected field constituents, and concentration of suspended sediment of water at selected sites--Continued

SITE 12 HOLLI-TUSKA CREEK NEAR PANAMA											
DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	pH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	BICAR- BONATE FET-FLD (MG/L AS HCO3)	ALKA- LINITY FIELD (MG/L AS CACO3)	SEDI- MENT, SUS- PENDED (MG/L)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
AUG, 1979	1230	1.4	71	6.9	25.5	7.2	88	18	15	75	90
15...											
SEPT 04...	1115	.01	124	6.8	25.0	4.3	52	56	46	--	--
NOV 26...	1200	.02	134	6.9	8.0	6.2	52	52	43	20	95
DEC 17...	0835	.09	126	7.0	2.0	15.1	105	39	32	33	96
31...	1050	.20	114	6.8	6.0	12.6	100	22	18	26	96
JAN, 1980											
07...	1110	.20	121	6.9	3.0	12.3	90	27	22	25	92
14...	1200	.15	130	7.4	5.0	12.4	105	--	24	27	93
24...	1220	.39	155	7.0	7.0	11.8	97	--	24	26	96
31...	0920	.15	180	6.3	.5	12.6	86	--	--	58	82
FEB											
07...	1020	.15	165	7.0	2.0	13.8	98	--	32	22	97
14...	1210	.98	121	6.7	5.5	12.5	98	--	14	11	66
21...	1635	.28	131	7.0	13.5	11.0	106	--	18	3	96
28...	1030	.15	162	7.0	9.0	11.4	98	--	22	2	90
MAR											
06...	0915	.09	148	7.1	4.0	12.2	92	--	25	20	78
14...	0810	.28	160	7.1	6.5	10.5	84	--	28	12	92
21...	0907	.39	163	7.0	9.0	10.2	87	--	28	5	94
28...	0840	4.8	117	6.6	11.0	10.1	91	--	17	15	99
APR											
07...	1130	.72	125	7.0	18.0	9.9	105	--	24	11	98
14...	0930	.20	142	7.0	7.5	10.8	89	--	32	7	92
21...	1045	.15	142	7.1	18.5	9.0	95	--	32	9	73
28...	1157	.20	163	7.1	16.0	9.3	94	--	38	4	83
MAY											
05...	0845	.98	111	6.8	17.0	8.0	82	--	25	8	89
12...	0900	.09	139	6.8	23.0	6.3	72	--	38	13	83
19...	0950	3.0	104	6.7	18.5	7.6	80	--	20	16	86
23...	1025	2.0	124	7.0	18.5	8.7	93	--	27	13	82
JUNE											
02...	1130	.05	150	7.2	24.0	6.8	80	--	42	20	82
MAR, 1981											
18...	1300	.70	178	6.9	9.5	9.2	81	48	39	7	95

Table 3.--Physical properties, selected field constituents, and concentration of suspended sediment of water at selected sites--Continued

SITE 12 HOLI-TUSKA CREEK NEAR PANAMA											
DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	pH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	BICAR- BONATE FET-FLD (MG/L AS HCO3)	ALKA- LINITY FIELD (MG/L AS CACO3)	SEDI- MENT, SUS- PENDED (MG/L)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
APR, 1981	1000	.20	195	7.4	18.0	5.2	55	93	76	25	93
23...											
MAY											
09...	1540	23	89	7.0	17.5	8.0	83	27	22	31	87
19...	1235	.53	108	7.2	17.5	8.5	88	29	24	20	94
22...	0945	--	109	7.3	18.5	7.9	85	--	--	21	94
30...	1520	12	95	7.3	22.5	7.8	90	32	26	36	88
JUNE											
05...	1855	219	85	7.1	--	--	--	38	31	726	79
05...	2100	301	82	7.1	--	--	--	39	32	611	78
25...	1005	.01	130	7.4	25.0	6.7	80	49	40	18	82
JULY											
01...	1515	.14	122	7.5	28.5	6.9	87	41	34	74	93
DEC											
15...	--	--	136	7.5	7.0	11.3	94	--	--	--	--

Table 3.--Physical properties, selected field constituents, and concentration of suspended sediment of water at selected sites--Continued

SITE 13 MUDDY BOGGY AT ATOKA												
DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CTIC CON- DUCT- ANCE (US/CM)	pH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	BICAR- BONATE FET-FLD (MG/L AS HCO3)	ALKA- LINITY FIELD (MG/L AS CACO3)	SEDI- MENT, SUS- PENDED (MG/L)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	
JULY, 1978												
26...	0920	13	310	7.0	27.5	--	--	95	78	--	--	
DEC												
07...	0800	3.4	240	6.9	5.5	7.4	60	43	36	--	--	
14...	0845	2.0	276	7.0	4.0	6.8	52	57	47	--	--	
21...	0900	2.6	280	6.4	6.0	7.3	59	59	48	136	97	
29...	0800	1.1	300	7.3	6.0	9.3	76	74	61	106	97	
JAN, 1979												
16...	0800	3.8	345	7.2	3.0	8.7	65	86	71	103	93	
26...	0825	58	255	7.3	2.0	--	--	45	37	52	90	
FEB												
14...	1000	186	259	7.4	7.0	13.4	113	28	23	307	98	
23...	0849	11	298	6.8	6.0	--	--	45	37	178	96	
28...	0942	1110	125	7.7	7.0	--	--	26	21	300	98	
MAR												
07...	0817	95	168	7.1	9.5	--	--	31	25	208	97	
13...	0955	20	312	7.1	12.0	--	--	50	41	161	99	
21...	0815	5980	81	6.7	14.0	7.9	77	24	20	--	--	
30...	0755	462	105	6.8	16.0	8.9	92	30	24	--	--	
APR												
13...	1100	915	186	7.2	17.0	8.2	86	50	41	--	--	
18...	1330	116	--	7.1	19.0	--	--	60	49	--	--	
24...	0802	92	178	7.0	19.0	6.9	76	49	40	116	98	
27...	0735	39	243	7.2	19.5	6.5	72	62	51	101	99	
MAY												
08...	0900	63	382	7.3	20.0	6.8	76	62	51	--	--	
16...	0805	38	217	7.3	21.0	6.1	68	65	53	195	98	
24...	1005	3600	122	7.2	21.0	5.3	60	39	32	136	94	
31...	0937	303	129	7.0	21.0	7.4	84	47	39	152	97	
JUNE												
06...	0748	1340	101	7.2	22.0	6.7	79	42	34	368	94	
13...	0850	392	210	6.9	23.0	5.3	62	71	58	--	--	
19...	0830	53	320	7.4	26.0	6.0	75	100	84	125	88	
23...	0815	25	385	7.5	28.5	5.4	71	120	101	83	99	
28...	0900	107	552	7.4	26.5	6.1	75	150	126	144	99	
JULY												
06...	0845	14	435	7.2	29.0	2.5	31	110	90	150	98	

Table 3.--Physical properties, selected field constituents, and concentration of suspended sediment of water at selected sites--Continued

SITE 13 MUDDY BOGGY AT ATOKA												
DATE	TIME	STREAM- FLOW, IN- STAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	pH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	BICAR- BONATE FET-FLD AS (MG/L HCO3)	ALKA- LINITY FIELD AS (MG/L CACO3)	SEDI- MENT, SUS- PENDED (MG/L)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	
JULY, 1979												
12...	0609	79	430	7.2	28.0	4.4	57	84	69	252	99	
19...	1935	149	127	6.9	26.0	5.2	65	42	34	304	98	
31...	0830	7.6	245	7.3	28.0	5.1	65	85	70	149	91	
AUG												
08...	1755	4.5	305	7.4	31.0	5.6	76	110	94	62	98	
13...	1735	26	380	7.5	28.0	4.7	60	140	112	125	95	
16...	1620	9.4	405	7.6	29.0	6.2	82	150	119	101	97	
21...	1830	203	150	7.1	28.0	4.5	58	58	47	--	--	
29...	1545	163	83	6.8	26.0	5.3	66	28	23	--	--	
SEPT												
06...	1800	16	405	7.3	29.0	5.7	75	69	57	256	99	
13...	1615	3.1	225	7.4	27.0	6.9	87	74	61	162	97	
20...	1555	2.8	284	7.3	21.0	7.4	84	75	62	166	86	
26...	1755	3.5	225	7.3	22.0	6.7	80	81	66	192	84	
OCT												
04...	1230	98	260	7.4	20.5	6.7	74	92	75	98	96	
09...	1725	1.3	282	7.4	18.0	7.5	80	97	80	119	98	
17...	1350	3.5	360	7.3	18.0	67.0	72	89	73	158	96	
24...	1605	7.6	278	7.5	19.0	5.4	59	99	81	133	98	
NOV												
07...	0800	8.5	315	7.2	10.0	6.7	60	90	74	173	98	
15...	0735	2.8	355	7.4	7.0	7.5	62	100	85	98	99	
21...	0820	4.8	342	7.5	15.0	8.0	78	100	83	163	96	
28...	0800	11	670	7.7	7.5	9.4	77	160	130	--	--	
DEC												
06...	1435	2.3	430	7.6	7.0	8.8	72	140	115	63	99	
13...	1530	3.4	430	7.8	8.0	12.4	103	140	113	77	100	
20...	0810	7.6	390	7.5	4.5	9.8	75	--	123	87	99	
27...	0755	9.7	600	7.6	8.0	11.2	93	140	112	105	99	
JAN, 1980												
03...	0830	7.0	860	8.3	4.0	13.8	104	170	143	91	97	
10...	0800	5.5	1000	7.1	5.0	13.2	103	130	103	106	99	
18...	1015	4.8	850	7.6	6.0	13.6	108	--	113	88	100	
22...	1540	5.3	740	7.5	8.0	10.0	84	--	101	130	98	
FEB												
06...	0830	5.5	470	7.4	4.5	11.2	85	--	89	107	98	
13...	1015	51	375	7.4	3.0	13.2	97	--	38	114	98	

Table 3.--Physical properties, selected field constituents, and concentration of suspended sediment of water at selected sites--Continued

SITE 13 MUDDY BOGGY AT ATOKA											
DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CTIFIC CON- DUCTI- VANCE (US/CM)	pH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	BICAR- BONATE FET-FLD (MG/L AS HCO3)	ALKA- LITY FIELD (MG/L AS CACO3)	SEDI- MENT, SUS- PENDED (MG/L)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
FEB , 1980											
20...	0935	11	385	7.2	6.5	10.0	81	--	53	111	90
MAR											
04...	1545	4.0	580	7.7	10.0	12.0	107	--	73	--	--
11...	1515	3.9	620	7.5	12.0	9.5	88	--	81	60	94
19...	1020	5.0	675	7.6	12.0	10.1	94	--	88	89	82
25...	1320	8.4	670	7.7	14.0	10.6	102	--	116	68	93
APR											
01...	1425	9.6	745	7.5	15.5	8.1	81	--	93	69	92
08...	1515	5.9	440	7.3	20.0	6.3	68	--	69	179	96
15...	1430	3.4	460	7.5	19.0	8.5	91	--	73	106	95
22...	1520	2.6	480	8.4	22.0	12.7	144	--	89	62	94
30...	0830	26	805	7.2	18.0	5.6	60	--	115	82	94
MAY											
03...	1120	3900	71	6.8	16.5	6.5	66	--	19	1470	95
13...	1820	8.7	268	7.4	25.0	7.6	90	--	58	129	98
20...	1310	221	255	7.0	22.0	6.7	76	--	51	524	99
28...	1025	13	242	6.9	26.0	4.1	50	--	54	134	98
JUNE											
03...	1612	140	169	7.1	25.5	6.4	77	--	39	181	99
11...	1330	11	187	7.0	27.0	4.5	55	--	45	120	98
18...	1340	3.6	220	7.2	29.0	4.9	63	--	56	120	98
25...	1355	36	250	7.0	29.5	4.4	57	--	44	266	99
JULY											
02...	1420	6.8	245	7.1	33.0	4.9	67	--	57	110	98
09...	1355	2.0	264	7.3	34.5	4.1	58	--	69	52	94
16...	1030	1.6	300	7.5	31.0	6.4	85	--	81	39	82
23...	1220	3.8	310	7.4	32.0	4.6	62	--	88	32	92
OCT											
20...	1715	18	141	7.0	17.0	5.7	59	37	30	58	97
NOV											
19...	1445	25	296	6.6	8.5	8.0	67	46	38	50	95
DEC											
17...	1635	10	220	7.1	9.0	9.2	79	44	36	129	98
JAN , 1981											
16...	1534	1.8	277	7.4	4.5	8.6	65	--	--	32	98
FEB											
06...	1344	1.5	328	7.5	5.0	12.6	98	76	62	14	96

Table 3.--Physical properties, selected field constituents, and concentration of suspended sediment of water at selected sites--Continued

SITE 13 MUDDY BOGGY AT ATOKA											
DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	pH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	BICAR- BONATE FET-FLD (MG/L AS HCO3)	ALKA- LINITY FIELD (MG/L AS CACO3)	SEDI- MENT, SUS- PENDED (MG/L)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
MAR, 1981	1655	960	150	7.3	12.5	10.8	84	34	28	769	97
05...											
APR	1540	6.8	277	7.5	20.5	8.3	91	68	56	111	98
10...	1740	242	150	7.1	20.0	6.4	70	43	35	--	--
24...											
MAY	1300	5.5	390	7.4	21.0	4.4	49	85	70	105	91
07...	1730	1780	190	7.2	17.5	7.1	74	48	39	958	96
11...	2010	1440	180	7.3	17.0	7.6	78	49	40	1060	98
11...											
JUNE	2025	2920	76	7.0	24.0	5.3	63	28	23	913	94
07...	1515	123	200	7.4	29.0	5.9	76	60	49	158	98
10...											
JULY	1310	13	189	7.4	31.5	3.6	48	50	41	187	98
14...											
AUG	1535	4.7	160	7.4	30.0	5.9	77	53	43	101	96
12...											
SEPT	1610	6.5	190	7.3	26.0	5.8	71	54	44	125	99
10...											

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites

[MG/L, milligrams per liter; DEG C, degrees Celsius; AC-FT, acre-feet; UG/L, micrograms per liter]

SITE 1 TI CREEK NEAR BLANCO												
DATE	TIME	NITRO- GEN DIS- SOLVED (MG/L AS N)	HARD- NESS (MG/L AS CAC03)	HARD- NESS, NONCAR- BONATE (MG/L CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	SULFATE DIS- SOLVED (MG/L AS S04)	
OCT , 1980												
20...	1325	3.5	49	26	11	5.3	8.5	26	.5	3.3	27	
DEC												
02...	1230	2.4	91	56	20	10	16	27	.8	2.8	63	
JAN , 1981												
02...	1242	--	120	93	28	13	21	27	.8	2.2	90	
FEB												
02...	1345	2.1	150	110	32	18	30	29	1	2.3	140	
MAR												
04...	1155	--	33	19	7.3	3.5	6.0	27	.5	2.0	21	
APR												
03...	1430	.98	95	55	20	11	20	31	.9	2.6	69	
MAY												
01...	1230	--	190	120	41	22	43	32	1	3.3	170	
20...	1230	--	120	--	26	14	25	30	1	2.6	92	
JUNE												
01...	1425	.70	53	21	12	5.6	9.9	27	.6	4.1	35	
JULY												
01...	1445	--	87	39	20	8.9	15	26	.7	3.4	53	

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 1 TI CREEK NEAR BLANCO											
DATE	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SI02)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N03)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N02)
OCT , 1980											
20...	9.6	.20	6.7	--	86	.12	.00	--	--	--	--
DEC											
02...	19	.20	2.2	169	150	.23	.01	--	--	--	--
JAN , 1981											
02...	23	.10	4.7	204	200	.28	.03	--	--	--	--
FEB											
02...	29	.20	4.8	271	280	.37	.06	--	--	--	--
MAR											
04...	6.2	.10	7.2	84	62	.11	3.2	--	--	--	--
APR											
03...	15	.10	3.9	174	170	.24	.13	--	--	--	--
MAY											
01...	36	.20	6.3	380	370	.52	.02	--	--	--	--
20...	20	.10	5.6	237	--	.32	.09	--	--	--	--
JUNE											
01...	9.6	.10	8.2	108	100	.15	.70	--	--	--	--
JULY											
01...	13	.10	7.7	153	150	.21	7.6	--	--	--	--

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 1 TI CREEK NEAR BLANCO										
	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHATE, TOTAL (MG/L AS P04)	PHOS- PHORUS TOTAL (MG/L AS P04)
DATE										
OCT , 1980										
20...	2.4	.190	--	1.0	1.2	.10	1.1	.060	--	.03
DEC										
02...	1.7	.050	--	.87	.92	.27	.92	.060	--	.18
JAN , 1981										
02...	--	--	--	--	--	--	--	--	--	--
FEB										
02...	1.4	.080	--	.86	.94	.24	.70	.030	--	.09
MAR										
04...	--	--	--	--	--	--	--	--	--	--
APR										
03...	.35	.050	--	.69	.74	.11	.63	.050	--	.15
MAY										
01...	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--
JUNE										
01...	.10	.130	--	.78	.91	.31	.60	.040	--	.12
JULY										
01...	--	--	--	--	--	--	--	--	--	--

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 1 TI CREEK NEAR BLANCO											
DATE	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	ALUM- INUM, TOTAL RECOV- ERABLE (UG/L AS AL)	ALUM- INUM, SUS- PENDED RECOV. (UG/L AS AL)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUS- PENDED TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	BERYL- LIUM, SUS- PENDED RECOV. (UG/L AS BE)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	BORON, DIS- SOLVED (UG/L AS B)
OCT , 1980											
20...	.010	--	--	--	1	0	1	0	--	<1	50
DEC											
02...	.120	--	--	--	1	1	0	0	--	<1	40
JAN , 1981											
02...	--	--	--	--	--	--	--	--	--	--	0
FEB											
02...	.020	--	--	--	1	1	0	0	--	<1	20
MAR											
04...	--	--	--	--	--	--	--	--	--	--	30
APR											
03...	.020	500	400	100	0	0	0	0	--	<1	30
MAY											
01...	--	200	0	230	--	--	--	--	--	--	50
20...	--	--	--	--	--	--	--	--	--	--	30
JUNE											
01...	.040	1000	500	500	1	0	1	0	--	<1	30
JULY											
01...	--	3200	2500	750	2	1	1	0	--	<1	40

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 1 TI CREEK NEAR BLANCO																		
DATE	CADMIUM		CADMIUM		CHRO- MIUM, TOTAL		CHRO- MIUM, SUS- PENDED		CHRO- MIUM, DIS- SOLVED		COPPER, TOTAL		COPPER, SUS- PENDED		IRON, TOTAL		IRON, SUS- PENDED	
	TOTAL RECOV- ERABLE (UG/L AS CD)	SUS- PENDED RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, SUS- PENDED RECOV. (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, SUS- PENDED RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, SUS- PENDED RECOV- ERABLE (UG/L AS FE)							
OCT , 1980																		
20...	0	--	<1	10	10	.00	9	6	3	4000	3900							
DEC																		
02...	1	0	1	0	0	.00	5	2	3	340	290							
JAN , 1981																		
02...	--	--	--	--	--	--	--	--	--	190	110							
FEB																		
02...	0	--	<1	10	10	.00	4	0	4	540	440							
MAR																		
04...	--	--	--	--	--	--	--	--	--	1300	1000							
APR																		
03...	0	--	<1	20	10	10	3	2	1	680	630							
MAY																		
01...	--	--	--	--	--	--	--	--	--	660	650							
20...	--	--	--	--	--	--	--	--	--	620	570							
JUNE																		
01...	2	0	2	10	0	10	4	1	3	950	730							
JULY																		
01...	0	--	<1	10	10	.00	11	9	2	8000	7900							

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 1 TI CREEK NEAR BLANCO											
DATE	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, SUS- PENDE RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, SUS- PENDE RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY SUS- PENDE RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)
OCT , 1980											
20...	130	7	5	2	200	180	20	.1	.1	.0	--
DEC											
02...	50	2	2	0	30	10	20	.0	.0	.0	--
JAN , 1981											
02...	80	--	--	--	--	--	--	--	--	--	--
FEB											
02...	100	7	5	2	50	0	50	.1	.1	.0	--
MAR											
04...	270	--	--	--	40	20	20	--	--	--	--
APR											
03...	50	1	1	0	120	10	110	.0	.0	.0	--
MAY											
01...	10	--	--	--	670	10	660	--	--	--	--
20...	50	--	--	--	90	20	70	--	--	--	--
JUNE											
01...	220	9	6	3	70	20	50	.1	.1	.0	--
JULY											
01...	90	1	0	1	410	250	160	.1	.0	.1	--

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 1 TI CREEK NEAR BLANCO										
DATE	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, SUS- PENDE RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, SUS- PENDE RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDE TOTAL (MG/L AS C)
OCT , 1980										
20...	9	9	0	0	0	30	0	20	--	--
DEC										
02...	2	2	0	0	0	30	0	20	79	--
JAN , 1981										
02...	--	--	--	--	--	--	--	--	--	--
FEB										
02...	4	4	0	0	0	10	0	40	13	1.0
MAR										
04...	--	--	--	--	--	--	--	--	--	--
APR										
03...	5	2	3	0	0	20	20	4	6.0	.10
MAY										
01...	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--
JUNE										
01...	0	0	2	0	0	40	0	40	6.3	1.2
JULY										
01...	10	7	3	1	0	40	20	20	--	--

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 2 BRUSHY CREEK NEAR HAILEYVILLE

DATE	TIME	NITRO- GEN DIS- SOLVED (MG/L AS N)	HARD- NESS (MG/L AS CAC03)	HARD- NESS NONCAR- BONATE (MG/L CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	SULFATE DIS- SOLVED (MG/L AS SO4)
DEC, 1978											
06...	1100	--	--	--	--	--	--	--	--	--	--
JAN, 1979											
16...	1355	--	51	17	13	4.5	7.8	24	.5	2.7	19
FEB											
22...	1106	--	--	--	--	--	--	--	--	--	--
MAR											
07...	1204	--	--	--	--	--	--	--	--	--	--
APR											
12...	1100	--	52	14	14	4.2	8.0	24	.5	1.5	20
17...	1100	--	--	--	--	--	--	--	--	--	21
26...	1000	--	--	--	--	--	--	--	--	--	--
MAY											
07...	1100	--	58	10	15	4.9	7.7	22	.5	2.1	24
23...	1342	--	25	3	6.5	2.2	3.9	24	.3	1.8	11
30...	0930	--	--	--	--	2.1	3.9	--	--	1.8	11
JUNE											
05...	1006	--	39	9	11	2.9	5.4	22	.4	1.8	11
12...	1107	--	38	7	10	3.1	5.5	23	.4	1.9	18
27...	1108	--	67	9	18	5.4	9.2	22	.5	2.3	23
JULY											
19...	1135	--	93	4	26	6.8	8.8	17	.4	3.1	17
AUG											
21...	1400	--	--	--	--	--	--	--	--	--	--
SEPT											
13...	1100	--	90	0	23	7.8	13	23	.6	2.9	17
26...	1130	--	84	4	21	7.6	12	23	.6	2.8	23
OCT											
03...	1155	--	70	0	17	6.6	17	33	.9	4.0	13
NOV											
27...	1215	--	--	--	--	--	--	--	--	--	--
DEC											
13...	1150	--	--	--	--	--	--	--	--	--	--
JAN, 1980											
09...	1150	--	84	10	22	7.0	9.0	18	.4	3.8	28
FEB											
05...	1025	--	--	--	--	--	--	--	--	--	--

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 2 BRUSHY CREEK NEAR HAILEYVILLE

DATE	TIME	NITRO- GEN DIS- SOLVED (MG/L AS N)	HARD- NESS (MG/L AS CAC03)	HARD- NESS NONCAR- BONATE (MG/L CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	SULFATE DIS- SOLVED (MG/L AS SO4)
MAR, 1980											
11...	1230	--	--	--	--	--	--	--	--	--	--
APR											
02...	1115	--	51	10	13	4.6	8.9	26	.6	2.3	13
15...	1150	--	66	14	17	5.7	12	27	.7	2.6	27
MAY											
13...	1235	--	34	5	8.5	3.1	5.1	23	.4	2.1	15
JUNE											
03...	1255	--	28	6	6.9	2.5	4.7	25	.4	2.3	9.8
JULY											
02...	1105	--	52	4	13	4.8	6.7	21	.4	2.7	12
OCT											
27...	1620	1.9	53	15	13	5.0	--	--	--	3.2	27
NOV											
06...	1530	--	39	15	9.6	3.6	6.7	25	.5	3.0	18
DEC											
03...	1457	1.3	50	14	13	4.2	6.9	22	.4	2.9	11
JAN, 1981											
02...	1610	--	48	26	13	3.8	6.6	22	.4	1.9	20
FEB											
03...	1508	1.6	45	12	11	4.3	7.4	25	.5	2.0	19
MAR											
02...	1700	--	24	9	6.0	2.2	4.7	28	.4	1.7	16
APR											
03...	1400	1.1	29	5	7.4	2.6	5.6	28	.5	1.7	9.7
MAY											
01...	1105	--	36	8	9.5	2.9	5.6	24	.4	2.3	5.6
JUNE											
02...	1515	1.2	33	7	8.4	3.0	5.1	23	.4	3.3	2.3
JULY											
07...	1400	--	54	10	14	4.6	7.1	21	.4	3.3	20
AUG											
05...	1400	.69	26	4	6.5	2.4	3.3	19	.3	2.8	1.0
31...	1230	--	26	0	6.4	2.4	3.9	23	.3	2.4	<5.0

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 2 BRUSHY CREEK NEAR HAILEYWILLE												
DATE	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SI02)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS NO3)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS NO2)	
DEC, 1978												
06...	--	--	--	--	--	--	--	--	--	--	--	
JAN, 1979												
16...	7.6	.10	6.7	103	86	.14	4.7	.78	3.5	.010	.03	
FEB												
22...	--	--	--	--	--	--	--	--	--	--	--	
MAR												
07...	--	--	--	--	--	--	--	--	--	--	--	
APR												
12...	6.3	.10	8.9	82	87	.11	32	.32	1.4	.010	.03	
17...	6.0	.10	5.5	79	--	.11	4.1	.29	1.3	.009	.03	
26...	--	--	--	--	--	--	--	--	--	--	--	
MAY												
07...	6.2	.10	7.1	107	97	.15	7.8	.15	.66	.010	.03	
23...	2.8	.10	7.7	51	50	.07	70	.16	.71	.010	.03	
30...	3.1	.10	6.1	47	--	.06	19	.09	.40	.010	.03	
JUNE												
05...	4.1	.10	7.0	65	62	.09	10	.10	.44	.010	.03	
12...	3.9	.10	7.2	80	69	.11	12	.15	.66	.010	.03	
27...	4.9	.10	9.2	108	110	.15	1.3	.04	.18	<.010	.00	
JULY												
19...	6.4	.20	8.4	126	130	.17	.44	.00	.00	.010	.03	
AUG												
21...	--	--	--	--	--	--	--	--	--	--	--	
SEPT												
13...	7.9	.20	7.6	132	140	.18	.00	.01	.04	<.010	.00	
26...	7.9	.20	6.4	133	130	.18	.22	.00	.00	.010	.03	
OCT												
03...	18	.20	5.5	118	130	.16	.00	.00	.00	.000	.00	
NOV												
27...	--	--	--	--	--	--	--	--	--	--	--	
DEC												
13...	--	--	--	--	--	--	--	--	--	--	--	
JAN, 1980												
09...	8.1	.10	7.1	121	130	.16	.33	.01	.04	.000	.00	
FEB												
05...	--	--	--	--	--	--	--	--	--	--	--	

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 2 BRUSHY CREEK NEAR HAILEYVILLE

DATE	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SI02)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N03)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N02)
MAR, 1980											
11...	--	--	--	--	--	--	--	--	--	--	--
APR											
02...	11	.10	4.3	100	82	.14	.23	.03	.13	.000	.00
15...	13	.10	--	119	110	.16	3.9	.00	.00	.000	.00
MAY											
13...	5.1	.10	5.7	71	63	.10	1.7	.07	.31	.010	.03
JUNE											
03...	4.0	.10	8.6	57	53	.08	6.0	.13	.58	.010	.03
JULY											
02...	5.2	.30	5.6	85	79	.12	.03	.00	.00	.000	.00
OCT											
27...	7.0	.20	5.6	106	--	.14	28	--	--	--	--
NOV											
06...	6.1	.10	6.0	84	67	.11	.21	--	--	--	--
DEC											
03...	7.8	.20	5.2	91	73	.12	.17	--	--	--	--
JAN, 1981											
02...	4.9	.10	6.8	67	71	.09	.46	--	--	--	--
FEB											
03...	6.2	.10	4.4	73	75	.10	.19	--	--	--	--
MAR											
02...	4.3	.10	7.2	69	51	.09	51	--	--	--	--
APR											
03...	4.6	.10	6.7	65	54	.09	4.8	--	--	--	--
MAY											
01...	5.3	.10	6.9	89	55	.12	1.3	--	--	--	--
JUNE											
02...	4.9	.10	7.9	75	51	.10	43	--	--	--	--
JULY											
07...	5.4	.10	7.7	95	90	.13	.90	--	--	--	--
AUG											
05...	2.6	.10	6.0	53	39	.07	.36	--	--	--	--
31...	3.6	.10	6.4	48	--	.07	.35	--	--	--	--

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 2 BRUSHY CREEK NEAR HAILEYVILLE											
DATE	NITRO- GEN, NO2+N03 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC DLS. TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHATE, TOTAL (MG/L AS P04)	PHOS- PHORUS TOTAL (MG/L AS P04)
DEC, 1978											
06...1979	--	--	--	--	--	--	--	--	--	--	--
JAN, 1979											
16...	.79	--	.020	.03	--	--	--	--	.130	.40	--
FEB											
22...	--	--	--	--	--	--	--	--	--	--	--
MAR											
07...	--	--	--	--	--	--	--	--	--	--	--
APR											
12...	.33	--	.030	.04	--	--	--	--	.020	.06	.06
17...	.30	--	.010	.01	--	--	--	--	.020	.06	.06
26...	--	--	--	--	--	--	--	--	--	--	--
MAY											
07...	.16	--	.040	.05	--	--	--	--	.060	.18	.18
23...	.17	--	.010	.01	--	--	--	--	.070	.21	.21
30...	.10	--	<.010	.00	--	--	--	--	.080	.25	.25
JUNE											
05...	.11	--	<.010	.00	--	--	--	--	.020	.06	.06
12...	.16	--	<.010	.00	--	--	--	--	.050	.15	.15
27...	.04	--	<.010	.00	--	--	--	--	.040	.12	.12
JULY											
19...	<.10	--	<.010	.00	--	--	--	--	.080	--	.25
AUG											
21...	--	--	--	--	--	--	--	--	--	--	--
SEPT											
13...	.01	--	.090	.12	--	--	--	--	.070	--	.21
26...	.01	--	<.010	.00	--	--	--	--	.030	--	.09
OCT											
03...	.00	--	.010	.01	--	--	--	--	.040	--	.12
NOV											
27...	--	--	--	--	--	--	--	--	--	--	--
DEC											
13...	--	--	--	--	--	--	--	--	--	--	--
JAN, 1980											
09...	.01	--	.040	.05	--	--	--	--	.050	--	.15
FEB											
05...	--	--	--	--	--	--	--	--	--	--	--

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 2 BRUSHY CREEK NEAR HAILEYVILLE

DATE	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, NH4 + ORG. TOTAL (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHATE, TOTAL (MG/L AS P04)	PHOS- PHORUS TOTAL (MG/L AS P04)
MAR, 1980										
MAR 11...	--	--	--	--	--	--	--	--	--	--
APR 02...	.03	.040	.05	--	--	--	--	.130	--	.40
APR 15...	.00	.060	.08	--	--	--	--	.070	--	.21
MAY 13...	.08	.030	.04	--	--	--	--	.070	--	.21
JUNE 03...	.14	.110	.14	--	--	--	--	.110	--	.34
JULY 02...	.00	.000	.00	--	--	--	--	.080	--	.25
OCT 27...	.84	--	--	1.4	1.4	.30	1.1	.040	--	.12
NOV 06...	--	--	--	--	--	--	--	--	--	--
DEC 03...	.57	.050	--	.95	1.0	.27	.73	.060	--	.18
JAN, 1981										
JAN 02...	--	--	--	--	--	--	--	--	--	--
FEB 03...	.77	.030	--	1.1	1.1	.24	.86	.050	--	.15
MAR 02...	--	--	--	--	--	--	--	--	--	--
APR 03...	.45	.070	--	1.2	1.3	.62	.68	.080	--	.25
MAY 01...	--	--	--	--	--	--	--	--	--	--
JUNE 02...	.24	.120	--	1.6	1.7	.75	.95	.140	--	.43
JULY 07...	--	--	--	--	--	--	--	--	--	--
AUG 05...	.14	.130	--	.97	1.1	.55	.55	.110	--	.34
AUG 31...	--	--	--	--	--	--	--	--	--	--

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 2 BRUSHY CREEK NEAR HAILEYWILLE											
DATE	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	ALUM- INUM, TOTAL RECOV- ERABLE (UG/L AS AL)	ALUM- INUM, SUS- PENDE RECOV. (UG/L AS AL)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUS- PENDE TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	BERYL- LIUM, SUS- PENDE RECOV. (UG/L AS BE)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	BORON, DIS- SOLVED (UG/L AS B)
DEC, 1978											
06... 1979	--	--	--	50	--	--	<1	--	--	--	--
JAN, 1979											
16...	--	--	--	20	--	--	<1	--	--	--	50
FEB											
22...	--	--	--	70	--	--	<1	--	--	--	--
MAR											
07...	--	--	--	30	--	--	<1	--	--	--	--
APR											
12...	--	--	--	<100	--	--	1	--	--	--	40
17...	--	--	--	--	--	--	--	--	--	--	30
26...	--	--	--	10	--	--	1	--	--	--	--
MAY											
07...	--	--	--	40	--	--	<1	--	--	--	50
23...	--	--	--	20	--	--	1	--	--	--	40
30...	--	--	--	<100	--	--	1	--	--	--	60
JUNE											
05...	--	--	--	40	--	--	1	--	--	--	60
12...	--	--	--	20	--	--	1	--	--	--	50
27...	--	--	--	20	--	--	2	--	--	--	40
JULY											
19...	--	--	--	20	--	--	1	--	--	--	50
AUG											
21...	--	--	--	<100	--	--	1	--	--	--	--
SEPT											
13...	--	--	--	20	--	--	2	--	--	--	60
26...	--	--	--	20	--	--	1	--	--	--	60
OCT											
03...	--	--	--	0	--	--	1	--	--	--	60
NOV											
27...	--	--	--	30	--	--	1	--	--	--	--
DEC											
13... 1980	--	--	--	30	--	--	1	--	--	--	--
JAN, 1980											
09...	--	--	--	0	--	--	0	--	--	--	60
FEB											
05...	--	--	--	20	--	--	0	--	--	--	--

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 2 BRUSHY CREEK NEAR HAILEYVILLE

DATE	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	ALUM- INUM, TOTAL RECOV- ERABLE (UG/L AS AL)	ALUM- INUM, SUS- PENDE RECOV. (UG/L AS AL)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUS- PENDE TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	BERYL- LIUM, SUS- PENDE RECOV. (UG/L AS BE)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	BORON, DIS- SOLVED (UG/L AS B)
MAR, 1980											
11...	--	--	--	60	--	--	0	--	--	--	--
APR											
02...	--	--	--	20	--	--	0	--	--	--	60
15...	--	--	--	20	--	--	0	--	--	--	50
MAY											
13...	--	--	--	30	--	--	1	--	--	--	50
JUNE											
03...	--	--	--	100	--	--	1	--	--	--	150
JULY											
02...	--	--	--	0	--	--	2	--	--	--	70
OCT											
27...	.050	--	--	--	3	2	1	0	--	<1	60
NOV											
06...	--	--	--	--	--	--	--	--	--	--	30
DEC											
03...	.070	--	--	--	1	1	0	0	--	<1	50
JAN, 1981											
02...	--	--	--	--	--	--	--	--	--	--	10
FEB											
03...	.030	--	--	--	1	1	0	0	--	<1	10
MAR											
02...	--	--	--	--	--	--	--	--	--	--	40
APR											
03...	.020	1500	830	670	0	0	0	0	--	<1	20
MAY											
01...	--	200	150	50	--	--	--	--	--	--	30
JUNE											
02...	.080	5400	4900	500	4	3	1	0	--	<1	20
JULY											
07...	--	2700	2000	750	--	--	--	--	--	--	40
AUG											
05...	.020	1000	500	500	1	0	1	0	--	<1	30
31...	--	4000	3600	400	--	--	--	--	--	--	30

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 2 BRUSHY CREEK NEAR HAILEYVILLE

DATE	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM SUS- PENDE RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, SUS- PENDE RECOV. (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, SUS- PENDE RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, SUS- PENDE RECOV- ERABLE (UG/L AS FE)
DEC, 1978											
06...1979	--	--	5	--	--	ND	--	--	2	--	--
JAN, 1979											
16...	--	--	<2	--	--	ND	--	--	4	--	--
FEB											
22...	--	--	5	--	--	ND	--	--	2	--	--
MAR											
07...	--	--	4	--	--	ND	--	--	ND	--	--
APR											
12...	--	--	<2	--	--	ND	--	--	2	--	--
17...	--	--	--	--	--	ND	--	--	--	--	--
26...	--	--	<2	--	--	ND	--	--	<2	--	--
MAY											
07...	--	--	16	--	--	ND	--	--	<2	--	--
23...	--	--	<2	--	--	ND	--	--	<2	--	--
30...	--	--	ND	--	--	ND	--	--	ND	--	--
JUNE											
05...	--	--	<2	--	--	20	--	--	<2	--	--
12...	--	--	<2	--	--	<20	--	--	<2	--	--
27...	--	--	<2	--	--	20	--	--	ND	--	--
JULY											
19...	--	--	<2	--	--	ND	--	--	ND	--	--
AUG											
21...	--	--	ND	--	--	<20	--	--	15	--	--
SEPT											
13...	--	--	<2	--	--	<20	--	--	<2	--	--
26...	--	--	<2	--	--	ND	--	--	2	--	--
OCT											
03...	--	--	<1	--	--	30	--	--	2	--	--
NOV											
27...	--	--	2	--	--	.00	--	--	0	--	--
DEC											
13...1980	--	--	2	--	--	.00	--	--	0	--	--
JAN, 1980											
09...	--	--	2	--	--	.00	--	--	0	--	--
FEB											
05...	--	--	0	--	--	.00	--	--	7	--	--

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 2 BRUSHY CREEK NEAR HAILEYVILLE

DATE	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM SUS- PENDE RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL, RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, SUS- PENDE RECOV. (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COPPER, TOTAL, RECOV- ERABLE (UG/L AS CU)	COPPER, SUS- PENDE RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL, RECOV- ERABLE (UG/L AS FE)	IRON, SUS- PENDE RECOV- ERABLE (UG/L AS FE)
MAR, 1980											
11...	--	--	0	--	--	.00	--	--	3	--	--
APR											
02...	--	--	<1	--	--	.00	--	--	1	--	--
15...	--	--	<1	--	--	.00	--	--	1	--	--
MAY											
13...	--	--	<1	--	--	.00	--	--	0	--	--
JUNE											
03...	--	--	4	--	--	.00	--	--	7	--	--
JULY											
02...	--	--	2	--	--	.00	--	--	3	--	--
OCT											
27...	0	--	<1	0	0	.00	13	5	8	9100	9000
NOV											
06...	--	--	--	--	--	--	--	--	--	2600	2500
DEC											
03...1981	2	1	1	10	10	.00	7	0	8	1100	730
JAN, 1981											
02...	--	--	--	--	--	--	--	--	--	920	800
FEB											
03...	0	--	<1	0	0	.00	7	5	2	990	680
MAR											
02...	--	--	--	--	--	--	--	--	--	3000	2800
APR											
03...	0	--	<1	20	10	10	5	3	2	1900	1700
MAY											
01...	--	--	--	--	--	--	--	--	--	3100	2900
JUNE											
02...	1	--	<1	20	20	.00	11	7	4	6300	6100
JULY											
07...	--	--	--	--	--	--	--	--	--	2500	2400
AUG											
05...	0	0	1	30	30	.00	4	1	3	1400	1200
31...	--	--	--	--	--	--	--	--	--	4900	4800

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 2 BRUSHY CREEK NEAR HAILEYVILLE

DATE	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, SUS- PENDE RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, SUS- PENDE RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY SUS- PENDE RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)
DEC, 1978											
06...1979	--	--	--	45	--	--	--	--	--	<.1	<1
JAN, 1979	300	--	--	3	--	--	130	--	--	<.1	<1
FEB 16...	--	--	--	41	--	--	--	--	--	<.1	<1
MAR 22...	--	--	--	47	--	--	--	--	--	<.1	<1
APR 07...	110	--	--	<2	--	--	<1	--	--	<.1	<10
MAY 26...	--	--	--	ND	--	--	--	--	--	--	<1
JUNE 07...	170	--	--	24	--	--	160	--	--	.2	<10
130	130	--	--	ND	--	--	70	--	--	<.1	<1
140	140	--	--	ND	--	--	20	--	--	<.1	<1
JUNE 05...	130	--	--	ND	--	--	60	--	--	<.1	<1
12...	90	--	--	2	--	--	60	--	--	<.1	<1
27...	30	--	--	ND	--	--	60	--	--	<.1	<10
JULY 19...	20	--	--	<2	--	--	720	--	--	<.1	<10
AUG 21...	--	--	--	ND	--	--	--	--	--	<.1	<1
SEPT 13...	520	--	--	ND	--	--	1700	--	--	<.1	<10
26...	50	--	--	ND	--	--	270	--	--	<.1	<10
OCT 03...	<10	--	--	0	--	--	100	--	--	.0	<10
NOV 27...	--	--	--	0	--	--	--	--	--	.0	3
DEC 13...	--	--	--	0	--	--	--	--	--	.0	3
JAN, 1980	70	--	--	0	--	--	90	--	--	.5	11
09...	--	--	--	0	--	--	--	--	--	.5	0
FEB 05...	--	--	--	0	--	--	--	--	--	.5	0

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 2 BRUSHY CREEK NEAR HAILEYVILLE

DATE	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, SUS- PENDE RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, SUS- PENDE RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY SUS- PENDE RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)
MAR, 1980											
11...	--	--	--	0	--	--	--	--	--	.0	0
APR											
02...	10	--	--	0	--	--	280	--	--	.0	<10
15...	<10	--	--	0	--	--	110	--	--	.0	<10
MAY											
13...	30	--	--	0	--	--	80	--	--	.2	<10
JUNE											
03...	220	--	--	2	--	--	80	--	--	.0	<10
JULY											
02...	<10	--	--	0	--	--	140	--	--	.2	<10
OCT											
27...	150	13	12	1	410	370	40	.1	.1	.0	--
NOV											
06...	80	--	--	--	110	80	30	--	--	--	--
DEC											
03...	370	3	3	0	110	30	80	.0	.0	.0	--
JAN, 1981											
02...	120	--	--	--	100	10	90	--	--	--	--
FEB											
03...	310	23	21	2	170	10	160	.1	.1	.0	--
MAR											
02...	190	--	--	--	140	70	70	--	--	--	--
APR											
03...	180	1	0	1	80	50	30	.0	.0	.0	--
MAY											
01...	160	--	--	--	230	180	50	--	--	--	--
JUNE											
02...	180	7	7	0	220	220	3	.2	.2	.0	--
JULY											
07...	60	--	--	--	180	170	9	--	--	--	--
AUG											
05...	190	0	0	1	130	120	9	.1	.1	.0	--
31...	130	--	--	--	210	190	23	--	--	--	--

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 2 BRUSHY CREEK NEAR HAILEYVILLE

DATE	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, SUS- PENDE RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, SUS- PENDE RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDE TOTAL (MG/L AS C)
DEC, 1978	--	--	--	--	--	--	--	--	--	--
JAN, 1979	--	--	--	--	--	--	--	--	--	--
FEB 16...	--	--	--	--	--	--	--	<3	--	--
MAR 22...	--	--	--	--	--	--	--	--	--	--
APR 07...	--	--	--	--	--	--	--	--	--	--
MAY 12...	--	--	--	--	--	--	--	--	--	--
MAY 17...	--	--	--	--	--	--	--	--	--	--
MAY 26...	--	--	--	--	--	--	--	--	--	--
MAY 07...	--	--	--	--	--	--	--	60	11	1.4
MAY 23...	--	--	--	--	--	--	--	<20	11	--
MAY 30...	--	--	--	--	--	--	--	<20	27	1.9
JUNE 05...	--	--	--	--	--	--	--	<20	5.4	1.0
JUNE 12...	--	--	--	--	--	--	--	ND	7.2	1.4
JUNE 27...	--	--	--	--	--	--	--	<3	4.8	--
JULY 19...	--	--	--	--	--	--	--	4	12	1.5
AUG 21...	--	--	--	--	--	--	--	--	--	--
SEPT 13...	--	--	--	--	--	--	--	4	6.2	1.1
SEPT 26...	--	--	--	--	--	--	--	5	5.3	1.4
OCT 03...	--	--	--	--	--	--	--	<3	6.6	1.2
NOV 27...	--	--	--	--	--	--	--	--	--	--
DEC 13...	--	--	--	--	--	--	--	--	--	--
JAN, 1980	--	--	--	--	--	--	--	--	--	--
JAN 09...	--	--	--	--	--	--	--	4	8.2	--
FEB 05...	--	--	--	--	--	--	--	--	--	--

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 2 BRUSHY CREEK NEAR HAILEYWILLE

DATE	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, SUS- PENDE RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, PENDE TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, SUS- PENDE RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDE TOTAL (MG/L AS C)
MAR, 1980											
11...	--	--	--	--	--	--	--	--	--	--	--
APR											
02...	--	--	--	--	--	--	--	--	4	3.5	1.1
15...	--	--	--	--	--	--	--	--	<3	3.9	1.0
MAY											
13...	--	--	--	--	--	--	--	--	8	5.0	.90
JUNE											
03...	--	--	--	--	--	--	--	--	<3	9.9	1.1
JULY											
02...	--	--	--	--	--	--	--	--	10	8.5	--
OCT											
27...	17	13	4	0	0	0	30	30	5	6.5	1.6
NOV											
06...	--	--	--	--	--	--	--	--	--	--	--
DEC											
03...1981	6	6	0	0	0	0	30	0	40	9.8	1.0
JAN, 1981											
02...	--	--	--	--	--	--	--	--	--	--	--
FEB											
03...	5	5	0	0	0	0	30	20	10	5.6	.30
MAR											
02...	--	--	--	--	--	--	--	--	--	--	--
APR											
03...	4	0	4	0	0	0	40	30	8	8.7	.40
MAY											
01...	--	--	--	--	--	--	--	--	--	--	--
JUNE											
02...	10	6	4	0	0	0	90	70	20	8.5	2.5
JULY											
07...	--	--	--	--	--	--	--	--	--	--	--
AUG											
05...	4	3	1	0	0	0	10	0	6	7.2	.90
31...	--	--	--	--	--	--	--	--	--	--	--

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 3 PEACEABLE CREEK NEAR HAILEYVILLE											
DATE	TIME	NITRO- GEN DIS- SOLVED (MG/L AS N)	HARD- NESS (MG/L AS CAC03)	HARD- NESS NONCAR- BONATE (MG/L CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	SULFATE DIS- SOLVED (MG/L AS SO4)
JULY, 1978											
06...	1440	--	65	12	16	6.1	10	24	.6	3.5	15
AUG											
02...	0900	--	68	2	17	6.3	15	31	.8	3.6	12
21...	1600	--	--	--	--	--	--	--	--	--	--
DEC											
06...	1300	--	--	--	--	--	--	--	--	--	--
JAN, 1979											
16...	1537	--	54	18	13	5.3	17	38	1	4.4	25
FEB											
22...	1337	--	--	--	--	--	--	--	--	--	--
MAR											
06...	1002	--	--	--	--	--	--	--	--	--	--
APR											
12...	1415	--	--	--	--	--	--	--	--	--	--
23...	1715	--	--	--	--	--	--	--	--	--	--
26...	1200	--	58	14	14	5.6	15	35	.9	2.9	30
MAY											
07...	1413	--	40	7	9.9	3.7	9.7	33	.7	2.3	19
23...	1651	--	28	5	7.1	2.5	5.3	27	.5	2.5	13
30...	1245	--	38	11	10	3.1	6.4	25	.5	2.9	14
JUNE											
18...	1345	--	48	10	12	4.4	11	30	.7	6.5	19
22...	1430	--	--	--	--	4.7	11	--	--	2.7	19
27...	1355	--	51	12	12	5.0	15	37	.9	4.0	25
JULY											
19...	1405	--	43	0	11	3.8	6.9	24	.5	3.4	10
AUG											
21...	1600	--	--	--	--	--	--	--	--	--	--
SEPT											
13...	1250	--	68	0	17	6.3	15	31	.8	3.6	13
26...	1315	--	65	0	16	6.1	15	32	.8	3.6	14
OCT											
03...	1000	--	75	2	19	6.7	11	23	.6	2.9	22
NOV											
20...	1610	--	--	--	--	--	--	--	--	--	--
DEC											
13...	1315	--	--	--	--	--	--	--	--	--	--

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites---Continued

SITE 3 PEACEABLE CREEK NEAR HAILEYVILLE											
DATE	TIME	NITRO- GEN DIS- SOLVED (MG/L AS N)	HARD- NESS (MG/L AS CACO3)	HARD- NESS NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	SULFATE DIS- SOLVED (MG/L AS SO4)
JAN, 1980											
09...	1400	--	55	12	13	5.5	19	40	1	4.7	26
FEB											
05...	1310	--	--	--	--	--	--	--	--	--	--
MAR											
11...	1020	--	--	--	--	--	--	--	--	--	--
APR											
01...	1020	--	65	15	16	6.1	21	39	1	5.0	37
15...	1000	--	75	19	18	7.2	25	40	1	5.7	41
MAY											
13...	1445	--	45	4	11	4.3	9.1	28	.6	4.1	20
JUNE											
03...	1042	--	36	2	9.3	3.1	6.6	26	.5	3.1	10
JULY											
03...	0730	--	61	2	16	5.2	9.7	24	.6	4.0	10
NOV											
04...	1520	--	52	--	13	4.7	15	36	.9	4.6	37
DEC											
03...	1700	2.3	64	8	16	5.9	14	30	.8	5.5	29
JAN, 1981											
05...	1315	--	50	2	12	4.9	9.8	28	.6	3.6	24
FEB											
04...	1315	1.4	54	11	13	5.3	11	29	.7	3.6	25
MAR											
03...	1425	--	38	12	9.6	3.5	9.2	32	.7	3.1	23
APR											
06...	1330	1.5	40	6	10	3.6	7.3	27	.5	3.1	19
MAY											
04...	1320	--	62	13	15	5.9	13	30	.7	4.0	--
JUNE											
01...	1345	1.4	37	9	9.9	3.0	6.8	26	.5	3.4	2.5
07...	1340	--	29	4	7.5	2.4	4.9	24	.4	3.9	2.5
JULY											
02...	1205	--	40	6	10	3.7	7.7	27	.5	4.5	4.0
AUG											
06...	1315	.78	37	4	9.9	3.1	5.6	22	.4	3.9	1.0
SEPT											
01...	1100	--	48	5	12	4.4	6.8	22	.4	3.8	<5.0
MAY, 1982											
27...	1500	--	40	--	10	3.6	10	34	.7	2.4	27

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 3 PEACEABLE CREEK NEAR HAILEYVILLE											
DATE	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG: C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS NO3)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS NO2)
JULY, 1978											
06...	11	.20	7.8	113	100	.15	.09	.06	.27	.010	.03
AUG											
02...	14	.20	6.5	117	110	.16	--	.01	.04	<.010	.00
21...	--	--	--	--	--	--	--	--	--	--	--
DEC											
06...	--	--	--	--	--	--	--	--	--	--	--
JAN, 1979											
16...	20	.10	13	138	120	.19	2.3	.62	2.7	.010	.03
FEB											
22...	--	--	--	--	--	--	--	--	--	--	--
MAR											
06...	--	--	--	--	--	--	--	--	--	--	--
APR											
12...	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--
26...	8.3	.10	8.2	129	110	.18	3.9	.14	.62	.010	.03
MAY											
07...	7.5	.10	8.6	84	82	.11	11	.22	.97	.021	.07
23...	5.5	.10	7.0	72	58	.10	71	.17	.75	.010	.03
30...	5.9	.10	6.8	73	67	.10	18	.20	.89	.021	.07
JUNE											
18...	9.7	.10	8.4	105	95	.14	3.7	.11	.49	.010	.03
22...	10	.10	10	110	--	.15	1.4	.03	1.3	<.010	.00
27...	11	.20	9.7	116	110	.16	3.8	.29	1.3	.010	.03
JULY											
19...	6.1	.20	7.3	79	75	.11	.94	.03	.13	.010	.03
AUG											
21...	--	--	--	--	--	--	--	--	--	--	--
SEPT											
13...	15	.30	6.8	118	120	.16	.06	.00	.00	<.010	.00
26...	14	.20	6.2	121	120	.16	.14	.00	.00	.010	.03
OCT											
03...	7.6	.20	5.2	126	120	.17	.05	.00	.00	.000	.00
NOV											
20...	--	--	--	--	--	--	--	--	--	--	--
DEC											
13...	--	--	--	--	--	--	--	--	--	--	--

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 3 PEACEABLE CREEK NEAR HAILEYVILLE

DATE	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SI02)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N03)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N02)
JAN, 1980											
09...	24	.20	11	138	130	.19	.33	.01	.04	.000	.00
FEB											
05...	--	--	--	--	--	--	--	--	--	--	--
MAR											
11...	--	--	--	--	--	--	--	--	--	--	--
APR											
01...	23	.20	4.1	144	140	.20	.97	.07	.31	.000	.00
15...	28	.10	--	168	150	.23	.16	.00	.00	.000	.00
MAY											
13...	8.8	.20	7.5	107	90	.15	.35	.02	.09	.010	.03
JUNE											
03...	5.2	.10	7.0	69	67	.09	3.9	.26	1.2	.020	.07
JULY											
03...	8.6	.50	6.4	104	96	.14	.01	.00	.00	.000	.00
NOV											
04...	13	.10	14	136	--	.19	.26	--	--	--	--
DEC											
03...	12	.20	6.9	129	120	.18	.05	--	--	--	--
JAN, 1981											
05...	7.5	.10	7.4	96	99	.13	.19	--	--	--	--
FEB											
04...	10	.10	4.9	105	99	.14	.19	--	--	--	--
MAR											
03...	7.1	.10	7.5	99	79	.13	9.2	--	--	--	--
APR											
06...	5.7	.10	5.4	82	75	.11	4.9	--	--	--	--
MAY											
04...	--	.10	9.3	129	--	.18	196	--	--	--	--
JUNE											
01...	5.9	.10	8.3	84	58	.11	34	--	--	--	--
07...	4.0	.10	7.5	71	48	.10	491	--	--	--	--
JULY											
02...	11	.10	8.6	94	71	.13	27	--	--	--	--
AUG											
06...	5.1	.10	7.2	75	57	.10	.30	--	--	--	--
SEPT											
01...	5.9	.20	6.5	84	--	.11	.12	--	--	--	--
MAY, 1982											
27...	7.5	.10	13	136	--	.19	61	--	--	--	--

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 3 PEACEABLE CREEK NEAR HAILEYVILLE

DATE	NITRO- GEN, NO ₂ +NO ₃ DIS- SOLVED (MG/L AS N)	NITRO- GEN AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN AMMONIA DIS- SOLVED (MG/L AS NH ₄)	NITRO- GEN ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,NH ₄ + ORG. SUSP. TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL, (MG/L AS P)	PHOS- PHATE, TOTAL, (MG/L AS PO ₄)	PHOS- PHORUS TOTAL (MG/L AS PO ₄)
JULY, 1978									
AUG 06...	.07	.060	.08	--	--	--	.050	.15	--
AUG 02...	.01	<.010	.00	--	--	--	.130	.40	--
AUG 21...	--	--	--	--	--	--	--	--	--
DEC 06...	--	--	--	--	--	--	--	--	--
JAN, 1979									
JAN 16...	.63	.180	.23	--	--	--	.240	.74	--
FEB 22...	--	--	--	--	--	--	--	--	--
MAR 06...	--	--	--	--	--	--	--	--	--
APR 12...	--	--	--	--	--	--	--	--	--
APR 23...	--	--	--	--	--	--	--	--	--
APR 26...	.15	.030	.04	--	--	--	.030	.09	.09
MAY 07...	.24	.090	.12	--	--	--	.100	.31	.31
MAY 23...	.18	<.010	.00	--	--	--	.150	.46	.46
MAY 30...	.22	<.010	.00	--	--	--	.140	.43	.43
JUNE 18...	.12	.030	.04	--	--	--	.060	.18	.18
JUNE 22...	.03	<.010	.00	--	--	--	.040	.12	.12
JUNE 27...	.30	<.010	.00	--	--	--	.140	.43	.43
JULY 19...	.04	.010	.01	--	--	--	.100	--	.31
AUG 21...	--	--	--	--	--	--	--	--	--
SEPT 13...	<.10	<.010	.00	--	--	--	.040	--	.12
SEPT 26...	.01	<.010	.00	--	--	--	.050	--	.15
OCT 03...	.00	.000	.00	--	--	--	.040	--	.12
NOV 20...	--	--	--	--	--	--	--	--	--
DEC 13...	--	--	--	--	--	--	--	--	--

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 3 PEACEABLE CREEK NEAR HAILEYVILLE											
DATE	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA SOLVED (MG/L AS NH4)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHATE, TOTAL (MG/L AS P04)	PHOS- PHORUS TOTAL (MG/L AS P04)
JAN, 1980											
09....	.01	--	.040	.05	--	--	--	--	.050	--	.15
FEB											
05....	--	--	--	--	--	--	--	--	--	--	--
MAR											
11....	--	--	--	--	--	--	--	--	--	--	--
APR											
01....	.07	--	.060	.08	--	--	--	--	.100	--	.31
15....	.00	--	.040	.05	--	--	--	--	.050	--	.15
MAY											
13....	.03	--	.040	.05	--	--	--	--	.120	--	.37
JUNE											
03....	.28	--	.140	.18	--	--	--	--	.160	--	.49
JULY											
03....	.00	--	.000	.00	--	--	--	--	.080	--	.25
NOV											
04....	--	--	--	--	--	--	--	--	--	--	--
DEC											
03....	1.7	.050	--	--	1.3	1.3	.68	.62	.080	--	.25
JAN, 1981											
05....	--	--	--	--	--	--	--	--	--	--	--
FEB											
04....	.30	.100	--	--	1.3	1.4	.30	1.1	.070	--	.21
MAR											
03....	--	--	--	--	--	--	--	--	--	--	--
APR											
06....	.40	.120	--	--	1.3	1.4	.30	1.1	.130	--	.40
MAY											
04....	--	--	--	--	--	--	--	--	--	--	--
JUNE											
01....	.34	.150	--	--	1.5	1.6	.50	1.1	.140	--	.43
07....	--	--	--	--	--	--	--	--	--	--	--
JULY											
02....	--	--	--	--	--	--	--	--	--	--	--
AUG											
06....	.14	.160	--	--	1.2	1.4	.76	.64	.130	--	.40
SEPT											
01....	--	--	--	--	--	--	--	--	--	--	--
MAY, 1982											
27....	--	--	--	--	--	--	--	--	--	--	--

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 3 PEACEABLE CREEK NEAR HAILEYVILLE

DATE	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	ALUM- INUM, TOTAL RECOV- ERABLE (UG/L AS AL)	ALUM- INUM, SUS- PENDE RECOV. (UG/L AS AL)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUS- PENDE TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	BERYL- LIUM, SUS- PENDE RECOV. (UG/L AS BE)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	BORON, DIS- SOLVED (UG/L AS B)
JULY, 1978											
06...	--	--	--	<100	--	--	2	--	--	--	70
AUG											
02...	--	--	--	0	--	--	1	--	--	--	70
21...	--	--	--	<100	--	--	1	--	--	--	--
DEC											
06...	--	--	--	10	--	--	1	--	--	--	--
JAN, 1979											
16...	--	--	--	20	--	--	1	--	--	--	50
FEB											
22...	--	--	--	40	--	--	1	--	--	--	--
MAR											
06...	--	--	--	30	--	--	1	--	--	--	--
APR											
12...	--	--	--	70	--	--	1	--	--	--	--
23...	--	--	--	30	--	--	<1	--	--	--	--
26...	--	--	--	20	--	--	1	--	--	--	50
MAY											
07...	--	--	--	30	--	--	1	--	--	--	50
23...	--	--	--	30	--	--	1	--	--	--	40
30...	--	--	--	20	--	--	1	--	--	--	30
JUNE											
18...	--	--	--	60	--	--	2	--	--	--	40
22...	--	--	--	80	--	--	2	--	--	--	50
27...	--	--	--	<100	--	--	2	--	--	--	30
JULY											
19...	--	--	--	10	--	--	1	--	--	--	40
AUG											
21...	--	--	--	<100	--	--	--	--	--	--	--
SEPT											
13...	--	--	--	20	--	--	1	--	--	--	70
26...	--	--	--	10	--	--	1	--	--	--	60
OCT											
03...	--	--	--	0	--	--	1	--	--	--	60
NOV											
20...	--	--	--	20	--	--	1	--	--	--	--
DEC											
13...	--	--	--	0	--	--	1	--	--	--	--

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 3 PEACEABLE CREEK NEAR HAILEYVILLE

DATE	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	ALUM- INUM, TOTAL RECOV- ERABLE (UG/L AS AL)	ALUM- INUM, SUS- PENDE RECOV. (UG/L AS AL)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUS- PENDE TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	BERYL- LIUM, SUS- PENDE RECOV. (UG/L AS BE)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	BORON, DIS- SOLVED (UG/L AS B)
JAN, 1980											
09...	--	--	--	50	--	--	1	--	--	--	60
FEB											
05...	--	--	--	10	--	--	0	--	--	--	--
MAR											
11...	--	--	--	140	--	--	1	--	--	--	--
APR											
01...	--	--	--	30	--	--	1	--	--	--	50
15...	--	--	--	20	--	--	1	--	--	--	50
MAY											
13...	--	--	--	20	--	--	1	--	--	--	70
JUNE											
03...	--	--	--	60	--	--	1	--	--	--	60
JULY											
03...	--	--	--	0	--	--	2	--	--	--	110
NOV											
04...	--	--	--	--	--	--	--	--	--	--	40
DEC											
03...	.060	--	--	--	1	0	1	10	--	<1	70
JAN, 1981											
05...	--	--	--	--	--	--	--	--	--	--	20
FEB											
04...	.030	--	--	--	2	1	1	0	--	<1	10
MAR											
03...	--	--	--	--	--	--	--	--	--	--	30
APR											
06...	.030	2900	2500	440	1	1	0	0	--	<1	20
MAY											
04...	--	1200	700	500	--	--	--	--	--	--	30
JUNE											
01...	.040	5400	4700	670	3	2	1	0	--	<1	20
07...	--	5000	4800	200	7	6	1	0	0	.0	200
JULY											
02...	--	3300	2600	750	--	--	--	--	--	--	30
AUG											
06...	.010	4000	3500	500	2	1	1	0	--	<1	40
SEPT											
01...	--	1000	600	400	--	--	--	--	--	--	40
MAY, 1982											
27...	--	--	--	--	--	--	--	--	--	--	30

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 3 PEACEABLE CREEK NEAR HAILEYVILLE											
DATE	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM SUS- PENDE RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, SUS- PENDE RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, SUS- PENDE RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, SUS- PENDE RECOV- ERABLE (UG/L AS FE)
JULY, 1978											
06...	--	--	12	--	--	ND	--	--	4	--	--
AUG											
02...	--	--	32	--	--	ND	--	--	3	--	--
21...	--	--	ND	--	--	<20	--	--	<2	--	--
DEC											
06...	--	--	14	--	--	ND	--	--	3	--	--
JAN, 1979											
16...	--	--	5	--	--	ND	--	--	4	--	--
FEB											
22...	--	--	11	--	--	ND	--	--	3	--	--
MAR											
06...	--	--	3	--	--	ND	--	--	2	--	--
APR											
12...	--	--	3	--	--	ND	--	--	4	--	--
23...	--	--	<2	--	--	ND	--	--	<2	--	--
26...	--	--	3	--	--	<20	--	--	<2	--	--
MAY											
07...	--	--	7	--	--	ND	--	--	<2	--	--
23...	--	--	3	--	--	<20	--	--	2	--	--
30...	--	--	ND	--	--	ND	--	--	<2	--	--
JUNE											
18...	--	--	2	--	--	2	--	--	5	--	--
22...	--	--	2	--	--	<20	--	--	3	--	--
27...	--	--	<2	--	--	20	--	--	2	--	--
JULY											
19...	--	--	<2	--	--	ND	--	--	2	--	--
AUG											
21...	--	--	ND	--	--	<20	--	--	<2	--	--
SEPT											
13...	--	--	<2	--	--	<20	--	--	<2	--	--
26...	--	--	<2	--	--	<20	--	--	4	--	--
OCT											
03...	--	--	<1	--	--	10	--	--	4	--	--
NOV											
20...	--	--	4	--	--	.00	--	--	0	--	--
DEC											
13...	--	--	1	--	--	.00	--	--	0	--	--

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 3 PEACEABLE CREEK NEAR HAILEYVILLE											
DATE	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM SUS- PENDE RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, SUS- PENDE RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, SUS- PENDE RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, SUS- PENDE RECOV- ERABLE (UG/L AS FE)
JAN, 1980											
09...	--	--	1	--	--	.00	--	--	0	--	--
FEB											
05...	--	--	0	--	--	.00	--	--	3	--	--
MAR											
11...	--	--	2	--	--	10	--	--	4	--	--
APR											
01...	--	--	<1	--	--	.00	--	--	3	--	--
15...	--	--	<1	--	--	.00	--	--	1	--	--
MAY											
13...	--	--	<1	--	--	.00	--	--	2	--	--
JUNE											
03...	--	--	3	--	--	.00	--	--	4	--	--
JULY											
03...	--	--	1	--	--	.00	--	--	3	--	--
NOV											
04...	--	--	--	--	--	--	--	--	--	2800	2800
DEC											
03...	1	0	1	0	0	.00	6	0	17	2000	1800
JAN, 1981											
05...	--	--	--	--	--	--	--	--	--	1400	1200
FEB											
04...	0	--	<1	0	0	.00	6	3	3	1200	1100
MAR											
03...	--	--	--	--	--	--	--	--	--	3000	2700
APR											
06...	0	--	<1	30	30	.00	8	3	5	3800	3600
MAY											
04...	--	--	--	--	--	--	--	--	--	2900	2300
JUNE											
01...	0	0	2	20	20	.00	11	7	4	6300	6100
07...	2	1	1	10	10	.00	11	7	4	6900	6700
JULY											
02...	--	--	--	--	--	--	--	--	--	4200	4000
AUG											
06...	0	--	<1	40	40	.00	8	4	4	4300	4100
SEPT											
01...	--	--	--	--	--	--	--	--	--	1500	1300
MAY, 1982											
27...	--	--	--	--	--	--	--	--	--	5200	3100

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 3 PEACEABLE CREEK NEAR HAILEYVILLE

DATE	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL, RECOV- ERABLE (UG/L AS PB)	LEAD, SUS- PENDED RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, TOTAL, RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, SUS- PENDED RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL, RECOV- ERABLE (UG/L AS HG)	MERCURY SUS- PENDED RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)
JULY, 1978											
06...	210	--	--	350	--	--	150	--	--	<.1	1
AUG											
02...	<10	--	--	260	--	--	120	--	--	<.1	1
21...	--	--	--	ND	--	--	--	--	--	<.1	<1
DEC											
06...	--	--	--	140	--	--	--	--	--	<.1	<1
JAN, 1979											
16...	220	--	--	36	--	--	80	--	--	<.1	<1
FEB											
22...	--	--	--	24	--	--	--	--	--	<.1	<1
MAR											
06...	--	--	--	50	--	--	--	--	--	<.1	<1
APR											
12...	--	--	--	38	--	--	--	--	--	<.1	<1
23...	--	--	--	4	--	--	--	--	--	.3	<1
26...	130	--	--	15	--	--	60	--	--	.3	<10
MAY											
07...	230	--	--	45	--	--	80	--	--	<.1	<10
23...	270	--	--	21	--	--	60	--	--	<.1	<1
30...	270	--	--	ND	--	--	40	--	--	<.1	<1
JUNE											
18...	430	--	--	2	--	--	60	--	--	<.1	<1
22...	200	--	--	ND	--	--	70	--	--	<.1	<10
27...	210	--	--	ND	--	--	50	--	--	<.1	<10
JULY											
19...	100	--	--	ND	--	--	130	--	--	<.1	<10
AUG											
21...	--	--	--	ND	--	--	--	--	--	<.1	<1
SEPT											
13...	20	--	--	<2	--	--	130	--	--	<.1	<10
26...	<10	--	--	ND	--	--	60	--	--	<.1	<10
OCT											
03...	20	--	--	0	--	--	340	--	--	.0	<10
NOV											
20...	--	--	--	0	--	--	--	--	--	.0	0
DEC											
13...	--	--	--	0	--	--	--	--	--	.0	2

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 3 PEACEABLE CREEK NEAR HAILEYVILLE

DATE	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL, RECOV- ERABLE (UG/L AS PB)	LEAD, SUS- PENDE RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, TOTAL, RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, SUS- PENDE RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY SUS- PENDE RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)
JAN, 1980											
09...	120	--	--	0	--	--	70	--	--	.0	15
FEB											
05...	--	--	--	0	--	--	--	--	--	.0	0
MAR											
11...	--	--	--	0	--	--	--	--	--	.0	0
APR											
01...	<10	--	--	0	--	--	190	--	--	.0	<10
15...	20	--	--	1	--	--	230	--	--	.0	<10
MAY											
13...	40	--	--	0	--	--	270	--	--	.2	<10
JUNE											
03...	130	--	--	2	--	--	100	--	--	.0	<10
JULY											
03...	30	--	--	0	--	--	100	--	--	.0	<10
NOV											
04...	50	--	--	--	100	70	30	--	--	--	--
DEC											
03... 1981	170	5	5	0	90	40	50	.0	.0	.0	--
JAN, 1981											
05...	200	--	--	--	110	20	90	--	--	--	--
FEB											
04...	110	9	8	1	90	30	60	.2	.2	.0	--
MAR											
03...	340	--	--	--	120	30	90	--	--	--	--
APR											
06...	180	3	0	3	130	90	40	.1	.1	.0	--
MAY											
04...	600	--	--	--	480	120	360	--	--	--	--
JUNE											
01...	200	9	9	0	150	140	10	.1	.0	.1	--
07...	190	46	46	0	170	120	50	.2	.2	.0	--
JULY											
02...	190	--	--	--	140	120	20	--	--	--	--
AUG											
06...	160	2	1	1	150	130	16	.1	.1	.0	--
SEPT											
01... 1982	170	--	--	--	160	140	23	--	--	--	--
MAY, 1982											
27...	2100	--	--	--	160	80	78	--	--	--	--

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 3 PEACEABLE CREEK NEAR HAILEYVILLE

DATE	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, SUS- PENDED RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, SUS- PENDED TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, SUS- PENDED RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDED TOTAL (MG/L AS C)
JULY, 1978											
06...	--	--	--	--	--	--	--	--	20	--	--
AUG											
02...	--	--	--	--	--	--	--	--	<3	--	.30
21...	--	--	--	--	--	--	--	--	--	--	--
DEC											
06...	--	--	--	--	--	--	--	--	--	--	--
JAN, 1979											
16...	--	--	--	--	--	--	--	--	<3	--	--
FEB											
22...	--	--	--	--	--	--	--	--	--	--	--
MAR											
06...	--	--	--	--	--	--	--	--	--	--	--
APR											
12...	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	<3	--	--
MAY											
07...	--	--	--	--	--	--	--	--	50	6.0	1.4
23...	--	--	--	--	--	--	--	--	<20	13	--
30...	--	--	--	--	--	--	--	--	<20	16	2.6
JUNE											
18...	--	--	--	--	--	--	--	--	<20	8.7	2.0
22...	--	--	--	--	--	--	--	--	4	8.4	--
27...	--	--	--	--	--	--	--	--	<3	8.6	--
JULY											
19...	--	--	--	--	--	--	--	--	<3	7.7	1.8
AUG											
21...	--	--	--	--	--	--	--	--	--	--	--
SEPT											
13...	--	--	--	--	--	--	--	--	<3	6.7	.70
26...	--	--	--	--	--	--	--	--	4	6.7	1.7
OCT											
03...	--	--	--	--	--	--	--	--	4	5.4	.80
NOV											
20...	--	--	--	--	--	--	--	--	--	--	--
DEC											
13...	--	--	--	--	--	--	--	--	--	--	--

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 3 PEACEABLE CREEK NEAR HAILEYVILLE

DATE	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, SUS- PENDED RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, SUS- PENDED RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDED TOTAL (MG/L AS C)
JAN, 1980										
09...	--	--	--	--	--	--	--	7	8.6	.50
FEB										
05...	--	--	--	--	--	--	--	--	--	--
MAR										
11...	--	--	--	--	--	--	--	--	--	--
APR										
01...	--	--	--	--	--	--	--	5	8.7	--
15...	--	--	--	--	--	--	--	<3	6.4	.90
MAY										
13...	--	--	--	--	--	--	--	<3	10	2.0
JUNE										
03...	--	--	--	--	--	--	--	<3	11	1.9
JULY										
03...	--	--	--	--	--	--	--	8	9.1	1.0
NOV										
04...	--	--	--	--	--	--	--	--	--	--
DEC										
03...	6	6	0	0	0	10	0	10	17	1.9
JAN, 1981										
05...	--	--	--	--	--	--	--	--	--	--
FEB										
04...	8	8	0	0	0	20	10	10	14	.50
MAR										
03...	--	--	--	--	--	--	--	--	--	--
APR										
06...	9	7	2	0	1	50	50	5	15	.90
MAY										
04...	--	--	--	--	--	--	--	--	--	--
JUNE										
01...	7	4	3	0	0	50	0	60	10	2.3
07...	5	1	4	0	0	70	50	20	--	--
JULY										
02...	--	--	--	--	--	--	--	--	--	--
AUG										
06...	3	1	2	0	0	20	0	79	10	--
SEPT										
01...	--	--	--	--	--	--	--	--	--	--
MAY, 1982										
27...	--	--	--	--	--	--	--	--	--	--

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 4 DEER CREEK NEAR McALESTER

DATE	TIME	NITRO- GEN DIS- SOLVED (MG/L AS N)	HARD- NESS (MG/L AS CACO3)	HARD- NESS NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	SULFATE DIS- SOLVED (MG/L AS SO4)
JULY, 1978											
11...	1015	--	100	10	28	7.2	40	44	2	9.0	28
AUG											
08...	1300	--	210	170	64	13	120	52	4	20	51
OCT											
17...	1800	--	100	41	31	6.5	71	56	3	15	64
DEC											
14...	1430	--	--	--	--	--	--	--	--	--	--
JAN, 1979											
16...	1100	--	77	6	22	5.4	35	47	2	7.6	36
FEB											
23...	1255	--	--	--	--	--	--	--	--	--	--
MAR											
06...	1217	--	--	--	--	--	--	--	--	--	--
APR											
13...	1430	--	--	--	--	--	--	--	--	--	--
18...	0800	--	140	44	39	11	120	63	5	9.1	47
26...	1513	--	100	0	27	8.3	59	54	3	6.7	50
MAY											
08...	1230	--	80	3	21	6.6	46	54	2	5.6	39
30...	1510	--	54	3	--	4.1	16	37	.9	--	21
JUNE											
12...	1637	--	56	0	15	4.4	19	41	1	3.1	30
18...	1645	--	180	43	49	13	170	66	6	9.2	57
22...	1730	--	150	--	40	11	140	66	5	9.4	67
27...	1625	--	83	0	23	6.2	38	48	2	6.1	51
JULY											
19...	1555	--	160	2	44	11	160	67	6	15	100
AUG											
17...	0800	--	--	--	--	--	--	--	--	--	--
22...	0815	--	--	--	--	--	--	--	--	--	--
SEPT											
14...	0730	--	94	0	27	6.5	63	56	3	11	67
27...	0805	--	75	0	21	5.5	25	40	1	5.9	24
OCT											
24...	1350	--	64	0	19	4.1	19	36	1	8.0	30
NOV											
28...	1050	--	--	--	--	--	--	--	--	--	--

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

		SITE 4 DEER CREEK NEAR McALESTER									
DATE	TIME	NITRO- GEN DIS- SOLVED (MG/L AS N)	HARD- NESS (MG/L AS CAC03)	HARD- NESS NONCAR- BONATE (MG/L CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	SULFATE DIS- SOLVED (MG/L AS SO4)
DEC, 1979											
14...	0842	--	--	--	--	--	--	--	--	--	--
JAN, 1980											
09...	1600	--	95	0	26	7.2	53	52	2	9.9	82
FEB											
05...	1600	--	--	--	--	--	--	--	--	--	--
MAR											
12...	0830	--	--	--	--	--	--	--	--	--	--
APR											
02...	0815	--	76	0	21	5.8	38	49	2	7.8	34
16...	0735	--	100	0	27	7.8	66	56	3	10	63
MAY											
02...	1317	--	66	0	19	4.6	23	40	1	6.0	45
02...	1555	--	63	0	18	4.5	16	33	.9	5.9	22
JUNE											
04...	0810	--	93	0	26	6.9	33	41	2	7.3	57
JULY											
02...	1850	--	110	0	32	7.2	64	53	3	11	54

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 4 DEER CREEK NEAR McALESTER											
DATE	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS NO3)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS NO2)
JULY, 1978											
11...	35	.40	9.7	237	220	.32	--	.12	.53	.070	.23
AUG											
08...	260	.30	9.0	646	580	.88	--	.11	.49	.090	.30
OCT											
17...	100	.30	14	387	350	.53	--	1.6	7.1	.180	.59
DEC											
14...	--	--	--	--	--	--	--	--	--	--	--
JAN, 1979											
16...	37	.20	6.9	206	200	.28	1.2	.79	3.5	.040	.13
FEB											
23...	--	--	--	--	--	--	--	--	--	--	--
MAR											
06...	--	--	--	--	--	--	--	--	--	--	--
APR											
13...	--	--	--	--	--	--	--	--	--	--	--
18...	190	.30	7.8	525	490	.71	8.6	.43	1.9	.150	.49
26...	50	.30	9.6	287	280	.39	2.6	.42	1.9	.120	.39
MAY											
08...	46	.30	11	248	230	.34	3.1	.53	2.3	.150	.49
30...	15	.20	7.5	126	120	.17	11	.41	1.8	.130	.43
JUNE											
12...	14	.20	6.7	136	130	.19	6.2	.37	1.6	.100	.33
18...	260	.50	7.7	632	640	.86	4.4	.67	3.0	.260	.85
22...	200	.60	9.1	579	--	.79	3.6	.57	2.5	.180	.59
27...	25	.40	7.8	228	220	.31	2.0	.55	2.4	.120	.39
JULY											
19...	220	.60	11	575	650	.78	3.4	.17	.75	.130	.43
AUG											
17...	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--
SEPT											
14...	50	1.3	9.3	300	320	.41	1.9	1.0	4.4	.180	.59
27...	20	.50	7.7	174	170	.24	.99	.77	3.4	.120	.39
OCT											
24...	15	.30	5.6	147	150	.20	.79	.20	.89	.070	.23
NOV											
28...	--	--	--	--	--	--	--	--	--	--	--

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 4 DEER CREEK NEAR McALESTER											
DATE	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SI02)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS NO3)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS NO2)
DEC, 1979	--	--	--	--	--	--	--	--	--	--	--
14... JAN, 1980	--	--	--	--	--	--	--	--	--	--	--
09... FEB	37	.70	7.1	285	310	.39	1.1	1.6	7.1	.040	.13
05... MAR	--	--	--	--	--	--	--	--	--	--	--
12... APR	--	--	--	--	--	--	--	--	--	--	--
25 02... 16... MAY	25 38	.50 .60	3.6 --	235 302	220 300	.32 .41	1.0 .90	.70 -.02	3.1 3.9	.110 1.00	.36 3.3
02... 02... JUNE	11 11	.40 .20	5.6 5.5	161 131	170 130	.22 .18	23 68	.54 .59	2.4 2.6	.070 .100	.23 .33
04... JULY	21	.40	11	216	240	.29	1.3	.33	1.5	.090	.30
02... JULY	46	.90	8.3	312	320	.42	1.2	.59	2.6	.260	.85

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 4 DEER CREEK NEAR McALESTER										
DATE	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC DIS- TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHATE, TOTAL (MG/L AS P04)	PHOS- PHORUS TOTAL (MG/L AS P04)
JULY, 1978										
11...	.19	5.20	6.7	--	--	--	--	3.20	9.80	--
AUG										
08...	.20	12.0	15	--	--	--	--	2.60	8.00	--
OCT										
17...	1.8	3.60	4.6	--	--	--	--	.010	.03	--
DEC										
14...	--	--	--	--	--	--	--	--	--	--
JAN, 1979										
16...	.83	3.00	3.9	--	--	--	--	1.40	4.30	--
FEB										
23...	--	--	--	--	--	--	--	--	--	--
MAR										
06...	--	--	--	--	--	--	--	--	--	--
APR										
13...	--	--	--	--	--	--	--	--	--	--
18...	.58	2.50	3.2	--	--	--	--	.790	2.40	2.4
26...	.54	2.60	3.3	--	--	--	--	1.00	3.10	3.1
MAY										
08...	.68	1.30	1.7	--	--	--	--	.790	2.40	2.4
30...	--	.530	.68	--	--	--	--	.350	1.10	1.1
JUNE										
12...	.47	.070	.09	--	--	--	--	.260	.80	.80
18...	.93	2.50	3.2	--	--	--	--	.650	2.00	2.0
22...	.75	2.90	3.7	--	--	--	--	.130	.40	.40
27...	.67	1.10	1.4	--	--	--	--	.850	2.60	2.6
JULY										
19...	.30	6.20	8.0	--	--	--	--	1.00	--	3.1
AUG										
17...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
SEPT										
14...	1.2	2.90	3.7	--	--	--	--	.290	--	.89
27...	.89	.910	1.2	--	--	--	--	1.40	--	4.3
OCT										
24...	.27	2.00	2.6	--	--	--	--	.100	--	.31
NOV										
28...	--	--	--	--	--	--	--	--	--	--

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 4 DEER CREEK NEAR McALESTER										
DATE	NITRO- GEN, NO ₂ +NO ₃ DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH ₄)	NITRO- GEN ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, NH ₄ + ORG. TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHATE, TOTAL (MG/L AS P04)	PHOS- PHORUS TOTAL (MG/L AS P04)
DEC, 1979										
14...	--	--	--	--	--	--	--	--	--	--
JAN, 1980										
09...	1.6	8.70	11	--	--	--	--	4.90	--	15
FEB										
05...	--	--	--	--	--	--	--	--	--	--
MAR										
12...	--	--	--	--	--	--	--	--	--	--
APR										
02...	.81	7.50	9.7	--	--	--	--	2.60	--	8.0
16...	.98	12.0	15	--	--	--	--	5.70	--	17
MAY										
02...	.61	4.80	6.2	--	--	--	--	1.50	--	4.6
02...	.69	2.40	3.1	--	--	--	--	.700	--	2.1
JUNE										
04...	.42	4.10	5.3	--	--	--	--	1.90	--	5.8
JULY										
02...	.85	7.80	10	--	--	--	--	4.10	--	13

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 4 DEER CREEK NEAR McALESTER											
DATE	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	ALUM- INUM, TOTAL RECOV- ERABLE (UG/L AS AL)	ALUM- INUM, SUS- PENDE RECOV. (UG/L AS AL)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUS- PENDE TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	BERYL- LIUM, SUS- PENDE RECOV. (UG/L AS BE)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	BORON, DIS- SOLVED (UG/L AS B)
JULY, 1978											
11...	--	--	--	10	--	--	7	--	--	--	220
AUG											
08...	--	--	--	<100	--	--	6	--	--	--	280
OCT											
17...	--	--	--	20	--	--	3	--	--	--	350
DEC											
14...	--	--	--	20	--	--	2	--	--	--	--
JAN, 1979											
16...	--	--	--	30	--	--	1	--	--	--	110
FEB											
23...	--	--	--	110	--	--	1	--	--	--	--
MAR											
06...	--	--	--	30	--	--	1	--	--	--	--
APR											
13...	--	--	--	40	--	--	1	--	--	--	--
18...	--	--	--	<100	--	--	2	--	--	--	200
26...	--	--	--	10	--	--	2	--	--	--	140
MAY											
08...	--	--	--	40	--	--	<1	--	--	--	210
30...	--	--	--	20	--	--	1	--	--	--	90
JUNE											
12...	--	--	--	30	--	--	2	--	--	--	110
18...	--	--	--	10	--	--	2	--	--	--	380
22...	--	--	--	10	--	--	7	--	--	--	330
27...	--	--	--	20	--	--	4	--	--	--	100
JULY											
19...	--	--	--	10	--	--	4	--	--	--	190
AUG											
17...	--	--	--	<100	--	--	6	--	--	--	--
22...	--	--	--	<100	--	--	3	--	--	--	--
SEPT											
14...	--	--	--	20	--	--	5	--	--	--	300
27...	--	--	--	<100	--	--	3	--	--	--	160
OCT											
24...	--	--	--	20	--	--	3	--	--	--	110
NOV											
28...	--	--	--	20	--	--	2	--	--	--	--

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 4 DEER CREEK NEAR McALESTER											
DATE	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	ALUM- INUM, TOTAL RECOV- ERABLE (UG/L AS AL)	ALUM- INUM, SUS- PENDE RECOV. (UG/L AS AL)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUS- PENDE TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	BERYL- LIUM, SUS- PENDE RECOV. (UG/L AS BE)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	BORON, DIS- SOLVED (UG/L AS B)
DEC, 1979											
14...	--	--	--	20	--	--	2	--	--	--	--
JAN, 1980				0	--	--	2	--	--	--	180
09...	--	--	--								
FEB											
05...	--	--	--	30	--	--	1	--	--	--	--
MAR				0	--	--	3	--	--	--	--
12...	--	--	--								
APR											
02...	--	--	--	20	--	--	2	--	--	--	130
16...	--	--	--	20	--	--	3	--	--	--	220
MAY											
02...	--	--	--	50	--	--	7	--	--	--	90
02...	--	--	--	50	--	--	2	--	--	--	90
JUNE											
04...	--	--	--	10	--	--	4	--	--	--	160
JULY											
02...	--	--	--	0	--	--	8	--	--	--	280

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 4 DEER CREEK NEAR McALESTER											
DATE	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM SUS- PENDE RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, SUS- PENDE RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, SUS- PENDE RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, SUS- PENDE RECOV- ERABLE (UG/L AS FE)
JULY, 1978											
11...	--	--	<2	--	--	ND	--	--	<2	--	--
AUG 08...	--	--	<2	--	--	ND	--	--	2	--	--
OCT 17...	--	--	ND	--	--	ND	--	--	2	--	--
DEC 14...	--	--	18	--	--	ND	--	--	2	--	--
JAN, 1979											
16...	--	--	8	--	--	ND	--	--	3	--	--
FEB 23...	--	--	7	--	--	ND	--	--	11	--	--
MAR 06...	--	--	4	--	--	ND	--	--	3	--	--
APR 13...	--	--	2	--	--	ND	--	--	5	--	--
18...	--	--	5	--	--	ND	--	--	<2	--	--
26...	--	--	4	--	--	ND	--	--	<2	--	--
MAY 08...	--	--	2	--	--	<20	--	--	ND	--	--
30...	--	--	7	--	--	ND	--	--	<2	--	--
JUNE 12...	--	--	<2	--	--	<20	--	--	<2	--	--
18...	--	--	2	--	--	<20	--	--	4	--	--
22...	--	--	2	--	--	20	--	--	2	--	--
27...	--	--	<2	--	--	20	--	--	ND	--	--
JULY 19...	--	--	<2	--	--	ND	--	--	ND	--	--
AUG 17...	--	--	<2	--	--	ND	--	--	<2	--	--
22...	--	--	ND	--	--	<20	--	--	2	--	--
SEPT 14...	--	--	<2	--	--	20	--	--	<2	--	--
27...	--	--	<2	--	--	<20	--	--	<2	--	--
OCT 24...	--	--	<1	--	--	.00	--	--	0	--	--
NOV 28...	--	--	1	--	--	.00	--	--	1	--	--

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 4 DEER CREEK NEAR McALESTER										
DATE	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM SUS- PENDE RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, SUS- PENDE RECOV. (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, SUS- PENDE RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, SUS- PENDE RECOV- ERABLE (UG/L AS FE)
DEC, 1979	--	--	1	--	--	.00	--	0	--	--
JAN, 1980	--	--	<1	--	--	.00	--	0	--	--
FEB	--	--	1	--	--	.00	--	5	--	--
MAR	--	--	0	--	--	.00	--	4	--	--
APR	--	--	<1	--	--	.00	--	2	--	--
MAY	--	--	<1	--	--	.00	--	2	--	--
JUNE	--	--	0	--	--	.00	--	3	--	--
JULY	--	--	1	--	--	.00	--	3	--	--
	--	--	<1	--	--	.00	--	2	--	--

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 4 DEER CREEK NEAR McALESTER										
DATE	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, SUS- PENDE RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, SUS- PENDE RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)
JULY, 1978										
11...	40	--	--	4	--	--	650	--	<.1	3
AUG 08...	50	--	--	<200	--	--	860	--	.2	3
OCT 17...	50	--	--	ND	--	--	150	--	<.1	<1
DEC 14...	--	--	--	86	--	--	--	--	<.1	3
JAN, 1979										
16...	230	--	--	42	--	--	200	--	<.1	<1
FEB 23...	--	--	--	23	--	--	--	--	<.1	<1
MAR 06...	--	--	--	39	--	--	--	--	<.1	<1
APR 13...	--	--	--	6	--	--	--	--	<.1	<1
18...	90	--	--	86	--	--	800	--	<.1	<10
26...	70	--	--	16	--	--	610	--	.4	<10
MAY 08...	240	--	--	13	--	--	320	--	.3	<10
30...	<10	--	--	19	--	--	120	--	.3	<1
JUNE 12...	120	--	--	3	--	--	120	--	<.1	<1
18...	20	--	--	<2	--	--	760	--	<.1	<1
22...	<10	--	--	ND	--	--	830	--	<.1	<10
27...	20	--	--	ND	--	--	340	--	<.1	<10
JULY 19...	30	--	--	2	--	--	790	--	<.1	<10
AUG 17...	--	--	--	ND	--	--	--	--	<.1	<1
22...	--	--	--	ND	--	--	--	--	<.1	<1
SEPT 14...	70	--	--	ND	--	--	260	--	<.1	<10
27...	180	--	--	ND	--	--	190	--	<.1	<10
OCT 24...	170	--	--	1	--	--	330	--	.0	<10
NOV 28...	--	--	--	0	--	--	--	--	.0	0

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 4 DEER CREEK NEAR McALESTER											
DATE	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, SUS- PENDE RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, SUS- PENDE RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY SUS- PENDE RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)
DEC, 1979											
14...	--	--	--	0	--	--	--	--	--	.0	5
JAN, 1980											
09...	80	--	--	2	--	--	120	--	--	.0	16
FEB											
05...	--	--	--	2	--	--	--	--	--	.0	1
MAR											
12...	--	--	--	0	--	--	--	--	--	.0	0
APR											
02...	60	--	--	0	--	--	290	--	--	.0	<10
16...	110	--	--	2	--	--	360	--	--	.0	<10
MAY											
02...	80	--	--	1	--	--	280	--	--	.1	<10
02...	130	--	--	2	--	--	270	--	--	.2	0
JUNE											
04...	30	--	--	2	--	--	480	--	--	.2	<10
JULY											
02...	<10	--	--	0	--	--	260	--	--	.0	<10

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 4 DEER CREEK NEAR McALESTER

DATE	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, SUS- PENDE RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, PENDE TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, SUS- PENDE RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDE TOTAL (MG/L AS C)
JULY, 1978											
11...	--	--	--	--	--	--	--	--	<20	12	3.7
AUG 08...	--	--	--	--	--	--	--	--	<20	--	.00
OCT 17...	--	--	--	--	--	--	--	--	20	13	.30
DEC 14...	--	--	--	--	--	--	--	--	--	--	--
JAN, 1979											
16...	--	--	--	--	--	--	--	--	<3	--	--
FEB 23...	--	--	--	--	--	--	--	--	--	--	--
MAR 06...	--	--	--	--	--	--	--	--	--	--	--
APR 13...	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	<20	--	--
26...	--	--	--	--	--	--	--	--	<3	--	--
MAY 08...	--	--	--	--	--	--	--	--	50	13	1.5
30...	--	--	--	--	--	--	--	--	<20	10	1.9
JUNE 12...	--	--	--	--	--	--	--	--	<20	10	4.4
18...	--	--	--	--	--	--	--	--	<20	12	2.9
22...	--	--	--	--	--	--	--	--	<3	13	--
27...	--	--	--	--	--	--	--	--	<3	8.4	--
JULY 19...	--	--	--	--	--	--	--	--	<3	12	1.3
AUG 17...	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--
SEPT 14...	--	--	--	--	--	--	--	--	<3	13	1.3
27...	--	--	--	--	--	--	--	--	3	9.7	2.1
OCT 24...	--	--	--	--	--	--	--	--	6	9.8	.70
NOV 28...	--	--	--	--	--	--	--	--	--	--	--

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 4 DEER CREEK NEAR McALESTER										
DATE	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, SUS- PENDE RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, SUS- PENDE RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDE TOTAL (MG/L AS C)
DEC, 1979	--	--	--	--	--	--	--	--	--	--
JAN, 1980	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	5	12	1.0
FEB	--	--	--	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--	--	--
MAR	--	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--	--
APR	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	6	8.5	1.5
16...	--	--	--	--	--	--	--	4	13	--
MAY	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	<3	16	3.3
02...	--	--	--	--	--	--	--	10	12	5.0
JUNE	--	--	--	--	--	--	--	--	--	--
04...	--	--	--	--	--	--	--	<3	14	1.0
JULY	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	<3	14	6.5

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 5 COAL CREEK NEAR SPIRO											
DATE	TIME	NITRO- GEN DIS- SOLVED (MG/L AS N)	HARD- NESS (MG/L AS CACO3)	HARD- NESS NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	SULFATE DIS- SOLVED (MG/L AS SO4)
JULY, 1978											
25...	0815	--	340	180	58	48	64	29	2	3.0	320
AUG											
24...	1430	--	400	230	66	56	70	28	2	2.8	330
DEC											
11...	1200	--	--	--	--	--	--	--	--	--	--
JAN, 1979											
02...	0900	--	150	100	27	19	24	26	.9	2.9	130
FEB											
08...	1442	--	--	--	--	--	--	--	--	--	--
MAR											
05...	1415	--	--	--	--	--	--	--	--	--	--
APR											
04...	0935	--	93	58	16	13	16	27	.7	1.5	78
16...	1425	--	120	63	21	17	22	28	.9	1.7	110
25...	1645	--	--	--	--	--	--	--	--	--	--
MAY											
05...	0900	--	83	46	15	11	14	26	.7	1.7	65
29...	1621	--	84	48	14	12	12	23	.6	1.8	67
JUNE											
09...	1415	--	110	60	18	15	17	25	.7	1.7	95
15...	1420	--	160	100	25	23	21	22	.7	1.9	140
20...	1052	--	180	110	32	25	26	23	.9	2.0	160
26...	1050	--	220	130	34	32	34	25	1	1.9	200
JULY											
10...	1432	--	100	59	16	15	--	--	--	2.8	94
AUG											
20...	0830	--	--	--	--	--	--	--	--	--	--
SEPT											
24...	0815	--	270	140	--	39	42	45	1	2.2	240
28...	0820	--	310	180	50	45	52	27	1	2.2	290
OCT											
16...	0955	--	340	200	55	49	54	26	1	2.4	290
NOV											
26...	1330	--	--	--	--	--	--	--	--	--	--
DEC											
31...	0845	--	--	--	--	--	--	--	--	--	--

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 5 COAL CREEK NEAR SPIRO

DATE	TIME	NITRO- GEN DIS- SOLVED (MG/L AS N)	HARD- NESS (MG/L AS CACO3)	HARD- NESS NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	SULFATE DIS- SOLVED (MG/L AS SO4)
JAN, 1980											
07...	1215	--	220	130	35	31	34	25	1	2.0	170
FEB											
07...	1145	--	--	--	--	--	--	--	--	--	--
MAR											
14...	0700	--	--	--	--	--	--	--	--	--	--
APR											
14...	1030	--	210	110	35	30	32	25	1	1.9	160
MAY											
05...	1015	--	110	61	19	16	20	27	.8	1.8	87
JUNE											
10...	1240	--	260	140	42	38	42	26	1	2.4	230
JULY											
14...	0850	--	380	230	61	55	62	26	1	2.9	350
AUG											
11...	0923	--	--	--	--	--	--	--	--	--	--
SEPT											
02...	0855	--	420	260	66	63	69	26	1	2.9	390
18...	0935	--	380	240	59	56	60	25	1	3.4	350
OCT											
24...	1600	2.1	330	190	53	48	50	25	1	2.8	250
NOV											
10...	1309	--	370	220	59	53	54	24	1	3.1	310
DEC											
12...	1249	2.1	170	100	29	24	25	24	.8	2.9	140
JAN, 1981											
09...	1155	--	350	220	56	50	51	24	1	1.9	300
FEB											
11...	1455	.42	180	98	31	25	29	26	1	2.2	160
MAR											
10...	1700	--	140	78	25	19	22	25	.8	1.8	120
APR											
21...	1040	.48	280	160	51	36	37	22	1	2.7	210
29...	1245	--	300	170	49	42	44	24	1	2.4	240
MAY											
20...	1345	--	140	81	24	19	20	24	.8	1.9	120
JUNE											
23...	1220	.93	230	140	39	32	35	25	1	2.6	200

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 5 COAL CREEK NEAR SPIRO											
DATE	TIME	NITRO- GEN DIS- SOLVED (MG/L AS N)	HARD- NESS (MG/L AS CAC03)	HARD- NESS NONCAR- BONATE (MG/L CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	SULFATE DIS- SOLVED (MG/L AS SO4)
JULY, 1981											
21...	1415	--	400	260	63	59	65	26	1	3.0	380
AUG											
24...	1420	.62	360	230	57	53	58	26	1	2.5	310
SEPT											
16...	1255	--	300	180	49	44	45	24	1	2.6	260
NOV											
18...	0900	--	210	--	36	29	32	25	1	2.4	180

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 5 COAL CREEK NEAR SPIRO											
DATE	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SI02)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS NO3)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS NO2)
JULY, 1978											
25...	3.9	.30	5.5	638	600	.87	--	.07	.31	<.010	.00
AUG											
24...	28	.40	4.7	679	660	.92	--	.10	.44	<.010	.00
DEC											
11...	--	--	--	--	--	--	--	--	--	--	--
JAN, 1979											
02...	7.1	.10	6.2	260	260	.35	3.2	3.4	15	.010	.03
FEB											
08...	--	--	--	--	--	--	--	--	--	--	--
MAR											
05...	--	--	--	--	--	--	--	--	--	--	--
APR											
04...	6.3	.10	7.8	160	160	.22	6.9	.26	1.2	.010	.03
16...	5.6	.20	5.2	209	220	.28	4.5	.10	.44	.010	.03
25...	--	--	--	--	--	--	--	--	--	--	--
MAY											
05...	5.8	.10	7.3	141	140	.19	9.5	.21	.93	.010	.03
29...	3.6	.10	6.7	144	140	.20	24	.16	.71	.010	.03
JUNE											
09...	3.8	.20	6.5	188	190	.26	11	.12	.53	.010	.03
15...	4.0	.20	5.1	257	250	.35	4.2	.00	.00	<.010	.00
20...	3.9	.20	4.7	311	300	.42	3.9	.01	.04	<.010	.00
26...	3.9	.30	5.5	357	360	.49	3.4	.11	.49	<.010	.00
JULY											
10...	4.6	.20	4.7	179	--	.24	4.2	.23	1.0	.010	.03
AUG											
20...	--	--	--	--	--	--	--	--	--	--	--
SEPT											
24...	3.0	.30	3.9	460	450	.63	1.2	.03	.13	.009	.03
28...	2.4	.30	4.4	519	530	.71	1.2	.02	.04	.003	.00
OCT											
16...	2.3	.30	4.2	561	540	.76	2.4	.04	.18	.010	.03
NOV											
26...	--	--	--	--	--	--	--	--	--	--	--
DEC											
31...	--	--	--	--	--	--	--	--	--	--	--

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 5 COAL CREEK NEAR SPIRO											
DATE	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SI02)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS NO3)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS NO2)
JAN, 1980											
07...	8.7	.20	3.4	358	340	.49	1.6	.04	.18	.010	.03
FEB											
07...	--	--	--	--	--	--	--	--	--	--	--
MAR											
14...	--	--	--	--	--	--	--	--	--	--	--
APR											
14...	7.5	.30	2.5	356	330	.48	2.0	.03	.13	.000	.00
MAY											
05...	6.9	.20	6.4	202	190	.27	2.8	.07	.31	.010	.03
JUNE											
10...	4.5	.30	2.7	425	430	.58	1.5	.03	.13	.020	.07
JULY											
14...	3.2	.50	4.0	674	630	.92	.76	.03	.13	.000	.00
AUG											
11...	--	--	--	--	--	--	--	--	--	--	--
SEPT											
02...	3.9	.30	4.0	736	700	1.0	.30	--	--	--	--
18...	3.6	.40	3.0	786	620	1.1	.04	.00	.00	.000	.00
OCT											
24...	14	.30	3.9	582	510	.79	1.7	--	--	--	--
NOV											
10...	3.0	.30	4.3	601	580	.82	.86	--	--	--	--
DEC											
12...	4.2	.20	5.9	296	270	.40	1.3	--	--	--	--
JAN, 1981											
09...	4.1	.30	3.4	568	550	.77	.72	--	--	--	--
FEB											
11...	6.6	.20	5.7	303	310	.41	4.4	--	--	--	--
MAR											
10...	8.4	.20	5.3	233	240	.32	3.1	--	--	--	--
APR											
21...	7.4	.30	2.8	420	420	.57	1.6	--	--	--	--
29...	6.9	.30	2.6	485	460	.66	7.3	--	--	--	--
MAY											
20...	7.0	.20	6.7	235	230	.32	2.4	--	--	--	--
JUNE											
23...	5.0	.20	5.7	384	380	.52	2.3	--	--	--	--

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 5 COAL CREEK NEAR SPIRO											
DATE	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SI02)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS NO3)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS NO2)
JULY, 1981											
21...	4.3	.10	4.6	718	670	.98	1.9	--	--	--	--
AUG											
24...	3.6	.30	4.3	612	570	.83	1.7	--	--	--	--
SEPT											
16...	4.8	.40	4.1	511	480	.70	1.7	--	--	--	--
NOV											
18...	8.2	.20	6.6	353	--	.48	--	--	--	--	--

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

DATE	SITE 5 COAL CREEK NEAR SPIRO										PHOS- PHATE, TOTAL, (MG/L AS P04)	PHOS- PHORUS TOTAL (MG/L AS P04)
	NITRO- GEN, NO2+NO3 DISE- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DISE- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DISE- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DISE- SOLVED (MG/L AS N4)	NITRO- GEN, AMMONIA DISE- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DISE- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DISE- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DISE- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DISE- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DISE- SOLVED (MG/L AS N)		
JULY, 1978												
25...	.07	.080	.10	.10	.10	.10	.10	.10	.10	.10	.06	--
AUG												
24...	.10	.050	.06	.06	.06	.06	.06	.06	.06	.06	.03	--
DEC												
11...	--	--	--	--	--	--	--	--	--	--	--	--
JAN, 1979												
02...	3.4	.160	.21	.21	.21	.21	.21	.21	.21	.21	.40	--
FEB												
08...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
05...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
04...	.27	.010	.01	.01	.01	.01	.01	.01	.01	.01	.06	--
16...	.11	.060	.08	.08	.08	.08	.08	.08	.08	.08	.06	--
25...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
05...	.22	.100	.13	.13	.13	.13	.13	.13	.13	.13	.12	.12
29...	.17	<.010	.00	.00	.00	.00	.00	.00	.00	.00	.15	.15
JUNE												
09...	.13	.210	.27	.27	.27	.27	.27	.27	.27	.27	.12	.12
15...	<.10	<.010	.00	.00	.00	.00	.00	.00	.00	.00	.06	.06
20...	.01	.010	.01	.01	.01	.01	.01	.01	.01	.01	.06	.06
26...	.11	<.010	.00	.00	.00	.00	.00	.00	.00	.00	.12	.12
JULY												
10...	.24	<.010	.00	.00	.00	.00	.00	.00	.00	.00	.28	.28
AUG												
20...	--	--	--	--	--	--	--	--	--	--	--	--
SEPT												
24...	.04	<.010	.00	.00	.00	.00	.00	.00	.00	.00	--	.06
28...	.02	<.010	.00	.00	.00	.00	.00	.00	.00	.00	--	.06
OCT												
16...	.05	.010	.01	.01	.01	.01	.01	.01	.01	.01	--	.03
NOV												
26...	--	--	--	--	--	--	--	--	--	--	--	--
DEC												
31...	--	--	--	--	--	--	--	--	--	--	--	--

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

		SITE 5 COAL CREEK NEAR SPIRO									
DATE		NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHATE, TOTAL (MG/L AS P04)	PHOS- PHORUS TOTAL (MG/L AS P04)
JAN, 1980											
	07...	.05	.030	.04	--	--	--	--	.030	--	.09
FEB	07...	--	--	--	--	--	--	--	--	--	--
MAR	14...	--	--	--	--	--	--	--	--	--	--
APR	14...	.03	.040	.05	--	--	--	--	.030	--	.09
MAY	05...	.08	.060	.08	--	--	--	--	.050	--	.15
JUNE	10...	.05	.040	.05	--	--	--	--	.010	--	.03
JULY	14...	.03	.040	.05	--	--	--	--	.030	--	.09
AUG	11...	--	--	--	--	--	--	--	--	--	--
SEPT	02...	--	.020	.03	--	--	--	--	.030	--	.09
OCT	18...	.12	--	--	.36	.36	.02	1.0	.020	--	.06
NOV	10...	--	--	--	--	--	--	--	--	--	--
DEC	12...	1.6	.070	--	.93	1.0	.50	.50	.050	--	.15
JAN, 1981	09...	--	--	--	--	--	--	--	--	--	--
FEB	11...	.38	.050	--	.38	.43	.39	.04	.020	--	.06
MAR	10...	--	--	--	--	--	--	--	--	--	--
APR	21...	.05	.080	--	.70	.78	.35	.43	.030	--	.09
MAY	20...	--	--	--	--	--	--	--	--	--	--
JUNE	23...	.07	.120	--	.71	.83	.00	.86	.020	--	.06

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

DATE	SITE 5 COAL CREEK NEAR SPIRO										PHOS- PHATE, TOTAL (MG/L AS P04)	PHOS- PHORUS TOTAL (MG/L AS P04)	PHOS- PHORUS TOTAL (MG/L AS P04)
	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS- (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)						
JULY, 1981	--	--	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG	.04	.040	4.90	6.3	.54	.58	.00	.58	.020	--	--	--	.06
24...	--	--	--	--	--	--	--	--	--	--	--	--	--
SEPT	--	--	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--	--	--
NOV	--	--	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 5 COAL CREEK NEAR SPIRO											
DATE	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	ALUM- INUM, TOTAL, RECOV- ERABLE (UG/L AS AL)	ALUM- INUM, SUS- PENDE RECOV. (UG/L AS AL)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUS- PENDE TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BERYL- LIUM, TOTAL, RECOV- ERABLE (UG/L AS BE)	BERYL- LIUM, SUS- PENDE RECOV. (UG/L AS BE)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	BORON, DIS- SOLVED (UG/L AS B)
JULY, 1978											
25...	--	--	--	<100	--	--	1	--	--	--	240
AUG											
24...	--	--	--	<100	--	--	1	--	--	--	250
DEC											
11...	--	--	--	<100	--	--	<1	--	--	--	--
JAN, 1979											
02...	--	--	--	20	--	--	<1	--	--	--	80
FEB											
08...	--	--	--	30	--	--	<1	--	--	--	--
MAR											
05...	--	--	--	20	--	--	<1	--	--	--	--
APR											
04...	--	--	--	<100	--	--	<1	--	--	--	50
16...	--	--	--	20	--	--	<1	--	--	--	70
25...	--	--	--	10	--	--	<1	--	--	--	--
MAY											
05...	--	--	--	30	--	--	<1	--	--	--	<20
29...	--	--	--	10	--	--	1	--	--	--	60
JUNE											
09...	--	--	--	40	--	--	2	--	--	--	80
15...	--	--	--	<100	--	--	1	--	--	--	70
20...	--	--	--	<100	--	--	1	--	--	--	170
26...	--	--	--	20	--	--	2	--	--	--	140
JULY											
10...	--	--	--	10	--	--	1	--	--	--	240
AUG											
20...	--	--	--	<100	--	--	<1	--	--	--	--
SEPT											
24...	--	--	--	20	--	--	1	--	--	--	180
28...	--	--	--	<100	--	--	1	--	--	--	190
OCT											
16...	--	--	--	430	--	--	1	--	--	--	180
NOV											
26...	--	--	--	20	--	--	0	--	--	--	--
DEC											
31...	--	--	--	20	--	--	1	--	--	--	--

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 5 COAL CREEK NEAR SPIRO											
DATE	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	ALUM- INUM, TOTAL RECOV- ERABLE (UG/L AS AL)	ALUM- INUM, SUS- PENDE RECOV. (UG/L AS AL)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUS- PENDE TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	BERYL- LIUM, SUS- PENDE RECOV. (UG/L AS BE)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	BORON, DIS- SOLVED (UG/L AS B)
JAN, 1980											
JAN, 07...	--	--	--	0	--	--	0	--	--	--	90
FEB 07...	--	--	--	30	--	--	0	--	--	--	--
MAR 14...	--	--	--	10	--	--	0	--	--	--	--
APR 14...	--	--	--	20	--	--	0	--	--	--	100
MAY 05...	--	--	--	60	--	--	0	--	--	--	50
JUNE 10...	--	--	--	30	--	--	1	--	--	--	160
JULY 14...	--	--	--	0	--	--	1	--	--	--	240
AUG 11...	--	--	--	10	--	--	1	--	--	--	--
SEPT 02...	--	--	--	0	--	--	1	--	--	--	250
18...	--	--	--	10	--	--	1	--	--	--	260
OCT 24...	.010	--	--	--	1	0	1	0	--	<1	160
NOV 10...	--	--	--	--	--	--	--	--	--	--	170
DEC 12...	.030	--	--	--	1	0	1	0	--	<1	80
JAN, 1981											
JAN, 09...	--	--	--	--	--	--	--	--	--	--	120
FEB 11...	.030	--	--	--	1	1	0	0	--	<1	70
MAR 10...	--	--	--	--	--	--	--	--	--	--	70
APR 21...	.010	120	100	20	0	0	0	0	--	<1	120
29...	--	100	90	10	1	0	1	0	--	<1	130
MAY 20...	--	830	730	100	--	--	--	--	--	--	40
JUNE 23...	.010	400	300	100	1	0	1	0	--	<1	110

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 5 COAL CREEK NEAR SPIRO											
DATE	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	ALUM- INUM, TOTAL, RECOV- ERABLE (UG/L AS AL)	ALUM- INUM, SUS- PENDE RECOV. (UG/L AS AL)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUS- PENDE TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BERYL- LIUM, TOTAL, RECOV- ERABLE (UG/L AS BE)	BERYL- LIUM, SUS- PENDE RECOV. (UG/L AS BE)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	BORON, DIS- SOLVED (UG/L AS B)
JULY, 1981											
21...	--	200	0	200	--	--	--	--	--	--	210
AUG											
24...	.010	200	100	100	1	1	0	0	--	<3	210
SEPT											
16...	--	1000	800	200	--	--	--	--	--	--	180
NOV											
18...	--	370	360	10	<1	--	<1	<10	--	<1	90

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 5 COAL CREEK NEAR SPIRO											
DATE	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM SUS- PENDE D RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, SUS- PENDE D RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, SUS- PENDE D RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, SUS- PENDE D RECOV- ERABLE (UG/L AS FE)
JULY, 1978											
25...	--	--	ND	--	--	<20	--	--	2	--	--
AUG											
24...	--	--	ND	--	--	ND	--	--	ND	--	--
DEC											
11...	--	--	5	--	--	ND	--	--	2	--	--
JAN, 1979											
02...	--	--	2	--	--	ND	--	--	2	--	--
FEB											
08...	--	--	<2	--	--	<20	--	--	ND	--	--
MAR											
05...	--	--	5	--	--	ND	--	--	ND	--	--
APR											
04...	--	--	<2	--	--	ND	--	--	<2	--	--
16...	--	--	4	--	--	ND	--	--	ND	--	--
25...	--	--	2	--	--	ND	--	--	ND	--	--
MAY											
05...	--	--	<2	--	--	ND	--	--	<2	--	--
29...	--	--	8	--	--	--	--	--	3	--	--
JUNE											
09...	--	--	<2	--	--	20	--	--	29	--	--
15...	--	--	<2	--	--	<20	--	--	ND	--	--
20...	--	--	<2	--	--	20	--	--	ND	--	--
26...	--	--	<2	--	--	<20	--	--	ND	--	--
JULY											
10...	--	--	<2	--	--	ND	--	--	ND	--	--
AUG											
20...	--	--	<2	--	--	<20	--	--	<2	--	--
SEPT											
24...	--	--	<2	--	--	<20	--	--	2	--	--
28...	--	--	<2	--	--	<20	--	--	<2	--	--
OCT											
16...	--	--	1	--	--	10	--	--	0	--	--
NOV											
26...	--	--	2	--	--	.00	--	--	0	--	--
DEC											
31...	--	--	1	--	--	.00	--	--	0	--	--

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 5 COAL CREEK NEAR SPIRO											
DATE	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM SUS- PENDE RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, SUS- PENDE RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, SUS- PENDE RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, SUS- PENDE RECOV- ERABLE (UG/L AS FE)
JAN, 1980											
07...	--	--	<1	--	--	.00	--	--	0	--	--
FEB											
07...	--	--	0	--	--	.00	--	--	0	--	--
MAR											
14...	--	--	0	--	--	.00	--	--	2	--	--
APR											
14...	--	--	<1	--	--	.00	--	--	0	--	--
MAY											
05...	--	--	<1	--	--	.00	--	--	1	--	--
JUNE											
10...	--	--	<1	--	--	.00	--	--	0	--	--
JULY											
14...	--	--	2	--	--	.00	--	--	2	--	--
AUG											
11...	--	--	0	--	--	20	--	--	0	--	--
SEPT											
02...	--	--	<1	--	--	.00	--	--	3	--	--
18...	--	--	<1	--	--	.00	--	--	1	--	--
OCT											
24...	1	--	<1	10	10	.00	3	0	5	340	320
NOV											
10...	--	--	--	--	--	--	--	--	--	240	210
DEC											
12...	0	--	<1	0	0	.00	6	4	2	1200	1100
JAN, 1981											
09...	--	--	--	--	--	--	--	--	--	200	180
FEB											
11...	0	--	<1	10	10	.00	4	2	2	2000	1800
MAR											
10...	--	--	--	--	--	--	--	--	--	910	800
APR											
21...	0	--	<1	20	20	.00	4	1	3	390	360
29...	0	--	<1	20	10	10	2	1	1	310	290
MAY											
20...	--	--	--	--	--	--	--	--	--	910	720
JUNE											
23...	1	--	<1	10	10	.00	3	2	1	320	290

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

DATE	SITE 5 COAL CREEK NEAR SPIRO										
	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM SUS- PENDE RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, SUS- PENDE RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, SUS- PENDE RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, SUS- PENDE RECOV- ERABLE (UG/L AS FE)
JULY, 1981											
21...	--	--	--	--	--	--	--	--	--	300	--
AUG											
24...	2	--	<1	10	10	.00	2	1	1	210	140
SEPT											
16...	--	--	--	--	--	--	--	--	--	880	870
NOV											
18...	<1	--	<1	<10	--	<10	4	3	1	610	510

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 5 COAL CREEK NEAR SPIRO											
DATE	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL, RECOV- ERABLE (UG/L AS PB)	LEAD, SUS- PENDE RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, TOTAL, RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, SUS- PENDE RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL, RECOV- ERABLE (UG/L AS HG)	MERCURY SUS- PENDE RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)
JULY, 1978											
25...	30	--	--	ND	--	--	110	--	--	<.1	<1
AUG											
24...	<10	--	--	ND	--	--	90	--	--	<.1	1
DEC											
11...	--	--	--	81	--	--	--	--	--	<.1	1
JAN, 1979											
02...	50	--	--	28	--	--	160	--	--	<.1	<1
FEB											
08...	--	--	--	<2	--	--	--	--	--	<.1	<1
MAR											
05...	--	--	--	53	--	--	--	--	--	<.1	<1
APR											
04...	150	--	--	12	--	--	70	--	--	<.1	<10
16...	50	--	--	27	--	--	50	--	--	.3	<10
25...	--	--	--	15	--	--	--	--	--	<.1	<1
MAY											
05...	80	--	--	ND	--	--	60	--	--	.4	<1
29...	100	--	--	18	--	--	40	--	--	.4	<1
JUNE											
09...	90	--	--	ND	--	--	40	--	--	<.1	<1
15...	40	--	--	ND	--	--	50	--	--	<.1	<1
20...	<10	--	--	<2	--	--	60	--	--	<.1	<1
26...	<10	--	--	ND	--	--	60	--	--	<.1	<10
JULY											
10...	<10	--	--	ND	--	--	30	--	--	<.1	<10
AUG											
20...	--	--	--	ND	--	--	--	--	--	<.1	<1
SEPT											
24...	<10	--	--	ND	--	--	50	--	--	<.1	<10
28...	<10	--	--	ND	--	--	70	--	--	<.1	<10
OCT											
16...	20	--	--	0	--	--	60	--	--	.0	<10
NOV											
26...	--	--	--	0	--	--	--	--	--	.0	0
DEC											
31...	--	--	--	0	--	--	--	--	--	.0	2

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 5 COAL CREEK NEAR SPIRO											
DATE	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL, RECOV- ERABLE (UG/L AS PB)	LEAD, SUS- PENDE RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, TOTAL, RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, SUS- PENDE RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY SUS- PENDE RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)
JAN, 1980											
07...	40	--	--	0	--	--	40	--	--	.0	<10
FEB											
07...	--	--	--	0	--	--	--	--	--	.0	0
MAR											
14...	--	--	--	0	--	--	--	--	--	.0	0
APR											
14...	50	--	--	0	--	--	60	--	--	.0	<10
MAY											
05...	270	--	--	1	--	--	110	--	--	.1	<10
JUNE											
10...	<10	--	--	0	--	--	130	--	--	.0	<10
JULY											
14...	<10	--	--	3	--	--	180	--	--	.0	13
AUG											
11...	--	--	--	3	--	--	--	--	--	.1	0
SEPT											
02...	10	--	--	19	--	--	100	--	--	.0	<10
18...	<10	--	--	1	--	--	130	--	--	.0	<10
OCT											
24...	20	0	0	0	220	20	200	.1	.1	.0	--
NOV											
10...	30	--	--	--	210	0	220	--	--	--	--
DEC											
12...	70	2	2	0	90	20	70	.0	.0	.0	--
JAN, 1981											
09...	20	--	--	--	120	10	110	--	--	--	--
FEB											
11...	160	9	9	0	120	40	80	.1	.0	.1	--
MAR											
10...	110	--	--	--	100	20	80	--	--	--	--
APR											
21...	30	0	0	1	290	20	270	.2	.1	.1	--
29...	20	3	0	3	230	70	160	.2	.2	.0	--
MAY											
20...	190	--	--	--	150	40	110	--	--	--	--
JUNE											
23...	30	17	17	0	190	20	170	.1	.1	.0	--

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 5 COAL CREEK NEAR SPIRO											
DATE	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL, RECOV- ERABLE (UG/L AS PB)	LEAD, SUS- PENDE RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, TOTAL, RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, SUS- PENDE RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY SUS- PENDE RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)
JULY, 1981											
21...	<10	--	--	--	350	70	280	--	--	--	--
AUG											
24...	69	1	0	4	160	10	150	.0	.0	.0	--
SEPT											
16...	14	--	--	--	130	60	75	--	--	--	--
NOV											
18...	99	5	4	1	100	20	81	.1	--	<.1	--

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 5 COAL CREEK NEAR SPIRO											
DATE	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, SUS- PENDE RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, SUS- PENDE TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, SUS- PENDE RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON, ORGANIC, DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC, SUS- PENDE TOTAL (MG/L AS C)
JULY, 1978											
25...	--	--	--	--	--	--	--	--	20	--	2.2
AUG 24...	--	--	--	--	--	--	--	--	ND	6.6	1.2
DEC 11...	--	--	--	--	--	--	--	--	--	--	--
JAN, 1979									ND	28	1.6
02...	--	--	--	--	--	--	--	--	--	--	--
FEB 08...	--	--	--	--	--	--	--	--	--	--	--
MAR 05...	--	--	--	--	--	--	--	--	--	--	--
APR 04...	--	--	--	--	--	--	--	--	<3	--	--
16...	--	--	--	--	--	--	--	--	<3	--	--
25...	--	--	--	--	--	--	--	--	--	--	--
MAY 05...	--	--	--	--	--	--	--	--	<20	10	1.2
29...	--	--	--	--	--	--	--	--	<20	4.3	1.6
JUNE 09...	--	--	--	--	--	--	--	--	<20	17	.80
15...	--	--	--	--	--	--	--	--	20	2.8	.50
20...	--	--	--	--	--	--	--	--	<20	6.8	.60
26...	--	--	--	--	--	--	--	--	<3	4.0	--
JULY 10...	--	--	--	--	--	--	--	--	<3	5.9	.10
AUG 20...	--	--	--	--	--	--	--	--	--	--	--
SEPT 24...	--	--	--	--	--	--	--	--	<3	2.4	.30
28...	--	--	--	--	--	--	--	--	<3	7.9	.30
OCT 16...	--	--	--	--	--	--	--	--	3	1.7	--
NOV 26...	--	--	--	--	--	--	--	--	--	--	--
DEC 31...	--	--	--	--	--	--	--	--	--	--	--

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 5 COAL CREEK NEAR SPIRO											
DATE	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, SUS- PENDE RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELF- NIUM, TOTAL (UG/L AS SE)	SELF- NIUM, SUS- PENDE TOTAL (UG/L AS SE)	SELF- NIUM, DIS- SOLVED (UG/L AS SE)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, SUS- PENDE RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON, ORGANIC, DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC, SUS- PENDE TOTAL (MG/L AS C)
JAN, 1980											
JAN 07...	--	--	--	--	--	--	--	--	<3	3.0	.20
FEB 07...	--	--	--	--	--	--	--	--	--	--	--
MAR 14...	--	--	--	--	--	--	--	--	--	--	--
APR 14...	--	--	--	--	--	--	--	--	<3	7.5	.20
MAY 05...	--	--	--	--	--	--	--	--	4	7.4	.40
JUNE 10...	--	--	--	--	--	--	--	--	5	7.7	1.1
JULY 14...	--	--	--	--	--	--	--	--	20	3.7	.10
AUG 11...	--	--	--	--	--	--	--	--	--	--	--
SEPT 02...	--	--	--	--	--	--	--	--	30	--	.20
18...	--	--	--	--	--	--	--	--	20	4.4	.20
OCT 24...	0	0	0	0	0	0	10	0	3	22	.20
NOV 10...	--	--	--	--	--	--	--	--	--	--	--
DEC 12...	3	3	0	0	0	0	10	0	20	--	.70
JAN, 1981											
JAN 09...	--	--	--	--	--	--	--	--	--	--	--
FEB 11...	4	1	3	0	0	0	20	10	7	24	1.2
MAR 10...	--	--	--	--	--	--	--	--	--	--	--
APR 21...	0	3	3	0	0	0	30	0	30	4.6	.40
29...	3	1	2	0	0	0	20	20	3	--	--
MAY 20...	--	--	--	--	--	--	--	--	--	--	--
JUNE 23...	4	3	1	0	0	0	20	0	20	7.2	.60

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

DATE	SITE 5 COAL CREEK NEAR SPIRO									
	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, SUS- PENDE RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELF- NIUM, TOTAL (UG/L AS SE)	SELF- NIUM, DIS- SOLVED (UG/L AS SE)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, SUS- PENDE RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDE TOTAL (MG/L AS C)
JULY, 1981										
21...	--	--	--	--	--	--	--	--	--	--
AUG										
24...	2	1	1	0	0	10	--	<3	2.2	.40
SEPT										
16...	--	--	--	--	--	--	--	--	--	--
NOV										
18...	1	0	2	<1	<1	20	0	17	--	--

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 6 FOURCHE MALINE NEAR WILBURTON

DATE	TIME	NITRO- GEN DIS- SOLVED (MG/L AS N)	HARD- NESS (MG/L AS CAC03)	HARD- NESS NONCAR- BONATE (MG/L CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	SULFATE DIS- SOLVED (MG/L AS SO4)
AUG, 1978											
10...	1000	--	58	0	--	--	12	30	.7	2.3	7.2
DEC	1230	--	--	--	--	--	--	--	--	--	--
JAN, 1979											
09...	1013	--	33	0	6.2	4.3	17	50	1	2.5	19
FEB	1258	--	--	--	--	--	--	--	--	--	--
03...	1255	--	--	--	--	--	--	--	--	--	--
APR	1411	--	15	5	2.7	1.9	4.7	39	.5	1.0	--
07...	0935	--	12	4	2.3	1.6	5.0	44	.6	1.0	9.1
14...	1024	--	--	--	--	--	--	--	--	--	--
MAY	1340	--	20	3	3.8	2.5	7.1	42	.7	1.4	12
10...	1255	--	12	2	2.3	1.4	3.7	38	.5	1.2	8.7
25...	1217	--	--	--	--	--	--	--	--	--	--
JUNE											
07...	1445	--	16	5	3.9	1.4	3.0	27	.3	1.5	8.6
11...	1330	--	11	0	2.4	1.1	2.8	34	.4	1.1	7.7
16...	1115	--	18	0	3.8	2.0	6.6	43	.7	1.2	9.1
25...	1118	--	20	0	4.1	2.4	--	--	--	1.8	11
JULY											
11...	1030	--	26	0	4.8	3.3	--	--	--	1.5	--
AUG											
14...	0835	--	--	--	--	--	--	--	--	--	--
17...	1030	--	--	--	--	--	--	--	--	--	--
SEPT											
14...	1010	--	27	0	5.3	3.4	14	50	1	2.5	11
27...	1355	--	30	0	5.9	3.8	15	49	1	2.5	12
OCT											
02...	1300	--	32	0	6.3	4.0	18	52	1	2.8	15
NOV											
28...	1345	--	--	--	--	--	--	--	--	--	--
DEC											
14...	1235	--	--	--	--	--	--	--	--	--	--
JAN, 1980											
16...	1050	--	33	0	6.6	4.1	18	52	1	2.0	18

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 6 FOURCHE MALINE NEAR WILBURTON

DATE	TIME	NITRO- GEN DIS- SOLVED (MG/L AS N)	HARD- NESS (MG/L AS CAC03)	HARD- NESS NONCAR- BONATE (MG/L CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	SULFATE DIS- SOLVED (MG/L AS SO4)
FEB, 1980											
04....	1120	--	--	--	--	--	--	--	--	--	--
MAR 13....	1135	--	--	--	--	--	--	--	--	--	--
APR 03....	1200	--	39	6	7.1	5.1	19	50	1	1.8	23
MAY 16....	1300	--	27	0	5.2	3.3	13	49	1	2.4	16
22....	1112	--	21	2	4.0	2.6	7.9	43	.8	1.5	2.3
JUNE 16....	1045	--	34	0	6.5	4.4	15	47	1	1.8	10
JULY 10....	1255	--	38	0	7.3	4.8	17	47	1	2.4	13
AUG 08....	1135	--	--	--	--	--	--	--	--	--	--
OCT 29....	1000	.70	35	1	6.8	4.4	17	49	1	3.1	18
NOV 08....	1615	--	39	0	7.7	4.8	22	52	2	3.5	6.0
DEC 23....	1630	.69	26	6	5.4	3.0	7.2	36	.6	1.8	15
JAN, 1981 23....	1530	--	30	0	5.8	3.8	9.8	40	.8	1.6	17
FEB 12....	1330	.85	29	0	5.4	3.8	24	63	2	1.5	19
MAR 13....	1400	--	21	4	4.0	2.7	9.6	48	.9	1.3	15
APR 09....	1315	.76	21	4	4.4	2.5	7.7	42	.7	1.2	14
23....	1625	--	22	3	4.4	2.7	7.8	41	.7	2.1	2.9
MAY 14....	1510	--	17	3	3.7	1.9	6.4	43	.7	1.3	--
JUNE 10....	1700	.28	13	4	2.6	1.6	3.8	36	.5	1.3	3.6
JULY 15....	1330	--	--	--	--	3.8	14	--	--	2.2	2.0
AUG 11....	1215	.77	36	0	6.8	4.6	22	55	2	2.2	<1.0
SEPT 01....	1600	--	42	0	7.9	5.5	32	60	2	2.6	<5.0

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 6 FOURCHE MALINE NEAR WILBURTON										
DATE	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SI02)	SOLIDS, RESIDUE AT 180 DEG: C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N03)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)
AUG, 1978										
10...	7.1	.10	7.9	94	92	.13	--	.03	.13	<.010
DEC										
15...	--	--	--	--	--	--	--	--	--	--
JAN, 1979										
09...	13	<.10	6.4	96	92	.13	.73	.07	.31	<.010
FEB										
03...	--	--	--	--	--	--	--	--	--	--
MAR										
02...	--	--	--	--	--	--	--	--	--	--
APR										
02...	3.8	<.10	8.3	46	--	.06	38	.10	.44	.010
07...	--	--	--	--	--	--	--	--	--	--
14...	5.1	.10	7.0	41	37	.06	26	.06	.27	<.010
MAY										
04...	--	--	--	--	--	--	--	--	--	--
10...	4.9	.10	7.3	--	50	.07	3.5	.07	.31	.010
25...	2.7	.10	7.3	45	34	.06	29	.00	.00	.010
JUNE										
07...	2.3	.10	5.1	38	33	.05	174	.07	.31	.020
11...	2.3	.10	--	44	24	.06	29	.02	.09	.010
16...	3.8	.10	6.9	51	45	.07	4.1	.08	.35	.010
25...	6.0	.10	7.8	54	--	.07	2.3	.05	.22	<.010
JULY										
11...	5.0	.10	7.9	59	--	.08	.30	.01	.04	<.010
AUG										
14...	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--
SEPT										
14...	7.6	.20	7.2	56	76	.08	.20	.05	.22	.010
27...	8.8	.10	6.2	78	81	.11	.13	.03	.13	.010
OCT										
02...	13	.10	6.4	102	94	.14	.17	.04	.18	.010
NOV										
28...	--	--	--	--	--	--	--	--	--	--
DEC										
14...	--	--	--	--	--	--	--	--	--	--
JAN, 1980										
16...	14	.10	5.8	95	91	.13	1.3	.04	.18	.010

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 6 FOURCHE MALINE NEAR WILBURTON

DATE	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SI02)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N03)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N02)
FEB, 1980											
04...	--	--	--	--	--	--	--	--	--	--	--
MAR											
13...	--	--	--	--	--	--	--	--	--	--	--
APR											
03...	17	.10	3.4	104	97	.14	1.3	.03	.13	.000	.00
MAY											
16...	12	.10	5.9	89	75	.12	69	.08	.35	.010	.03
22...	6.8	.20	7.4	58	45	.08	18	.07	.31	.010	.03
JUNE											
16...	15	.00	6.6	92	83	.13	.30	.01	.04	.010	.03
JULY											
10...	12	.20	7.1	104	89	.14	.15	.00	.00	.000	.00
AUG											
08...	--	--	--	--	--	--	--	--	--	--	--
OCT											
29...	13	.10	5.5	91	88	.12	.37	--	--	--	--
NOV											
08...	18	.20	6.4	114	100	.16	.19	--	--	--	--
DEC											
23...1981	7.2	.10	5.2	61	57	.08	.48	--	--	--	--
JAN, 1981											
23...	8.7	.10	4.9	72	70	.10	.11	--	--	--	--
FEB											
12...	20	.10	5.3	93	100	.13	6.0	--	--	--	--
MAR											
13...	11	.10	5.1	60	59	.08	3.8	--	--	--	--
APR											
09...	7.0	.10	5.0	54	53	.07	3.2	--	--	--	--
23...	6.7	.10	5.8	66	45	.09	39	--	--	--	--
MAY											
14...	--	.00	7.0	50	--	.07	9.0	--	--	--	--
JUNE											
10...	3.5	.10	8.6	54	31	.07	31	--	--	--	--
JULY											
15...	17	.10	7.9	87	--	.12	.63	--	--	--	--
AUG											
11...	27	.10	7.4	104	--	.14	.62	--	--	--	--
SEPT											
01...	39	.10	7.2	129	--	.18	.20	--	--	--	--

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 6 FOURCHE MALINE NEAR WILBURTON										
DATE	NITRO- GEN, NO2+N03 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA SOLVED (MG/L AS NH4)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS P)	PHOS- PHATE, TOTAL, (MG/L AS P04)	PHOS- PHORUS TOTAL (MG/L AS P04)	
AUG, 1978										
10...	.03	--	.010	.01	--	--	.060	.18	--	
DEC										
15...	--	--	--	--	--	--	--	--	--	
JAN, 1979										
09...	.07	--	.020	.03	--	--	.040	.12	--	
FEB										
03...	--	--	--	--	--	--	--	--	--	
MAR										
02...	--	--	--	--	--	--	--	--	--	
APR										
02...	.11	--	.030	.04	--	--	.030	.09	--	
07...	--	--	--	--	--	--	--	--	--	
14...	.06	--	.030	.04	--	--	.020	.06	.06	
MAY										
04...	--	--	--	--	--	--	--	--	--	
10...	.08	--	.020	.03	--	--	.040	.12	.12	
25...	.01	--	<.010	.00	--	--	.040	.12	.12	
JUNE										
07...	.09	--	<.010	.00	--	--	.080	.25	.25	
11...	.03	--	<.010	.00	--	--	.050	.15	.15	
16...	.09	--	.060	.08	--	--	.030	.09	.09	
25...	.05	--	<.010	.00	--	--	.040	.12	.12	
JULY										
11...	.01	--	<.010	.00	--	--	.050	.15	.15	
AUG										
14...	--	--	--	--	--	--	--	--	--	
17...	--	--	--	--	--	--	--	--	--	
SEPT										
14...	.06	--	.010	.01	--	--	.050	--	.15	
27...	.04	--	<.010	.00	--	--	.060	--	.18	
OCT										
02...	.05	--	.010	.01	--	--	.050	--	.15	
NOV										
28...	--	--	--	--	--	--	--	--	--	
DEC										
14...	--	--	--	--	--	--	--	--	--	
JAN, 1980										
16...	.05	--	.030	.04	--	--	.050	--	.15	

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 6 FOURCHE MALINE NEAR WILBURTON										
DATE	NITRO- GEN, NO2+N03 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHATE, TOTAL (MG/L AS P04)	PHOS- PHORUS TOTAL (MG/L AS P04)
FEB, 1980										
04...	--	--	--	--	--	--	--	--	--	--
MAR										
13...	--	--	--	--	--	--	--	--	--	--
APR										
03...	.03	.000	.00	--	--	--	--	.110	--	.34
MAY										
16...	.09	.170	.22	--	--	--	--	.110	--	.34
22...	.08	.100	.13	--	--	--	--	.090	--	.28
JUNE										
16...	.02	.030	.04	--	--	--	--	.120	--	.37
JULY										
10...	.00	.010	.01	--	--	--	--	.080	--	.25
AUG										
08...	--	--	--	--	--	--	--	--	--	--
OCT										
29...	.34	.040	--	1.2	1.2	.84	.36	.080	--	.25
NOV										
08...	--	--	--	--	--	--	--	--	--	--
DEC										
23...	.22	.080	--	.53	.61	.14	.47	.190	--	.58
JAN, 1981										
23...	--	--	--	--	--	--	--	--	--	--
FEB										
12...	.17	.060	--	.71	.77	.09	.68	.020	--	.06
MAR										
13...	--	--	--	--	--	--	--	--	--	--
APR										
09...	.25	.060	--	.45	.51	.00	.51	.050	--	.15
23...	--	--	--	--	--	--	--	--	--	--
MAY										
14...	--	--	--	--	--	--	--	--	--	--
JUNE										
10...	.03	.030	--	1.2	1.2	.95	.25	.100	--	.31
JULY										
15...	--	--	--	--	--	--	--	--	--	--
AUG										
11...	.11	.020	--	6.2	6.2	5.5	.66	.080	--	.25
SEPT										
01...	--	--	--	--	--	--	--	--	--	--

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 6 FOURCHE MALINE NEAR WILBURTON											
DATE	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	ALUM- INUM, TOTAL RECOV- ERABLE (UG/L AS AL)	ALUM- INUM, SUS- PENDE RECOV. (UG/L AS AL)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUS- PENDE TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	BERYL- LIUM, SUS- PENDE RECOV. (UG/L AS BE)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	BORON, DIS- SOLVED (UG/L AS B)
AUG, 1978											
10...	--	--	--	20	--	--	3	--	--	--	40
DEC											
15...	--	--	--	40	--	--	1	--	--	--	--
JAN, 1979											
09...	--	--	--	30	--	--	1	--	--	--	40
FEB											
03...	--	--	--	40	--	--	<1	--	--	--	--
MAR											
02...	--	--	--	40	--	--	<1	--	--	--	--
APR											
02...	--	--	--	30	--	--	<1	--	--	--	50
07...	--	--	--	10	--	--	1	--	--	--	--
14...	--	--	--	80	--	--	1	--	--	--	50
MAY											
04...	--	--	--	60	--	--	<1	--	--	--	--
10...	--	--	--	70	--	--	--	--	--	--	30
25...	--	--	--	--	--	--	<1	--	--	--	30
JUNE											
07...	--	--	--	60	--	--	1	--	--	--	<20
11...	--	--	--	110	--	--	1	--	--	--	40
16...	--	--	--	40	--	--	1	--	--	--	<20
25...	--	--	--	20	--	--	2	--	--	--	80
JULY											
11...	--	--	--	20	--	--	2	--	--	--	130
AUG											
14...	--	--	--	<100	--	--	1	--	--	--	--
17...	--	--	--	<100	--	--	1	--	--	--	--
SEPT											
14...	--	--	--	30	--	--	1	--	--	--	60
27...	--	--	--	<100	--	--	1	--	--	--	60
OCT											
02...	--	--	--	70	--	--	1	--	--	--	60
NOV											
28...	--	--	--	60	--	--	1	--	--	--	--
DEC											
14...	--	--	--	30	--	--	1	--	--	--	--
JAN, 1980											
16...	--	--	--	10	--	--	0	--	--	--	40

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 6 FOURCHE MALINE NEAR WILBURTON

DATE	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	ALUM- INUM, TOTAL RECOV- ERABLE (UG/L AS AL)	ALUM- INUM, SUS- PENDE RECOV. (UG/L AS AL)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUS- PENDE TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	BERYL- LIUM, SUS- PENDE RECOV. (UG/L AS BE)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	BORON, DIS- SOLVED (UG/L AS B)
FEB, 1980											
04...	--	--	--	30	--	--	0	--	--	--	--
MAR											
13...	--	--	--	60	--	--	0	--	--	--	--
APR											
03...	--	--	--	20	--	--	0	--	--	--	50
MAY											
16...	--	--	--	40	--	--	1	--	--	--	80
22...	--	--	--	30	--	--	1	--	--	--	20
JUNE											
16...	--	--	--	40	--	--	1	--	--	--	30
JULY											
10...	--	--	--	20	--	--	2	--	--	--	50
AUG											
08...	--	--	--	10	--	--	3	--	--	--	--
OCT											
29...	.040	--	--	--	1	0	1	0	--	<1	40
NOV											
08...	--	--	--	--	--	--	--	--	--	--	70
DEC											
23...	.020	--	--	--	1	0	1	0	0	<1	10
JAN, 1981											
23...	--	--	--	--	--	--	--	--	--	--	10
FEB											
12...	.040	--	--	--	1	1	0	0	--	<1	30
MAR											
13...	--	--	--	--	--	--	--	--	--	--	30
APR											
09...	.020	500	60	440	1	1	0	0	--	<1	10
23...	--	1400	960	440	2	1	1	0	--	<1	10
MAY											
14...	--	750	650	100	--	--	--	--	--	--	170
JUNE											
10...	.040	500	410	90	1	0	1	0	--	<1	20
JULY											
15...	--	1000	250	750	--	--	--	--	--	--	30
AUG											
11...	.020	500	300	200	2	1	1	0	--	<1	30
SEPT											
01...	--	500	300	200	--	--	--	--	--	--	50

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 6 FOURCHE MALINE NEAR WILBURTON											
DATE	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM SUS- PENDE RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, SUS- PENDE RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, SUS- PENDE RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, SUS- PENDE RECOV- ERABLE (UG/L AS FE)
AUG, 1978											
10...	--	--	2	--	--	ND	--	--	3	--	--
DEC											
15...	--	--	12	--	--	ND	--	--	<2	--	--
JAN, 1979											
09...	--	--	4	--	--	<20	--	--	2	--	--
FEB											
03...	--	--	4	--	--	ND	--	--	2	--	--
MAR											
02...	--	--	3	--	--	ND	--	--	ND	--	--
APR											
02...	--	--	5	--	--	ND	--	--	2	--	--
07...	--	--	4	--	--	ND	--	--	<2	--	--
14...	--	--	2	--	--	ND	--	--	3	--	--
MAY											
04...	--	--	2	--	--	ND	--	--	<2	--	--
10...	--	--	--	--	--	--	--	--	--	--	--
25...	--	--	3	--	--	ND	--	--	ND	--	--
JUNE											
07...	--	--	<2	--	--	<20	--	--	3	--	--
11...	--	--	<2	--	--	<20	--	--	2	--	--
16...	--	--	<2	--	--	<20	--	--	48	--	--
25...	--	--	2	--	--	<20	--	--	<2	--	--
JULY											
11...	--	--	<2	--	--	ND	--	--	<2	--	--
AUG											
14...	--	--	ND	--	--	<20	--	--	--	--	--
17...	--	--	<2	--	--	<20	--	--	<2	--	--
SEPT											
14...	--	--	<2	--	--	ND	--	--	ND	--	--
27...	--	--	<2	--	--	<20	--	--	2	--	--
OCT											
02...	--	--	<1	--	--	.00	--	--	0	--	--
NOV											
28...	--	--	2	--	--	.00	--	--	0	--	--
DEC											
14...	--	--	1	--	--	.00	--	--	0	--	--
JAN, 1980											
16...	--	--	<1	--	--	.00	--	--	0	--	--

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 6 FOURCHE MALINE NEAR WILBURTON

DATE	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM SUS- PENDE RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, SUS- PENDE RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, SUS- PENDE RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, SUS- PENDE RECOV- ERABLE (UG/L AS FE)
FEB, 1980											
04...	--	--	0	--	--	.00	--	--	18	--	--
MAR											
13...	--	--	0	--	--	10	--	--	2	--	--
APR											
03...	--	--	1	--	--	.00	--	--	1	--	--
MAY											
16...	--	--	1	--	--	.00	--	--	2	--	--
22...	--	--	<1	--	--	.00	--	--	2	--	--
JUNE											
16...	--	--	<1	--	--	.00	--	--	3	--	--
JULY											
10...	--	--	<1	--	--	.00	--	--	1	--	--
AUG											
08...	--	--	1	--	--	.00	--	--	1	--	--
OCT											
29...	0	--	<1	0	0	.00	7	0	11	3700	3600
NOV											
08...	--	--	--	--	--	--	--	--	--	1600	1300
DEC											
23... 1981	1	0	<1	0	0	.00	3	0	8	970	870
JAN, 1981											
23...	--	--	--	--	--	--	--	--	--	1200	850
FEB											
12...	0	--	<1	10	0	10	3	0	3	1500	1300
MAR											
13...	--	--	--	--	--	--	--	--	--	1700	1500
APR											
09...	0	--	<1	20	0	.00	5	2	3	1300	1000
23...	0	--	<1	30	30	.00	48	46	2	3200	2700
MAY											
14...	--	--	--	--	--	--	--	--	--	1600	1300
JUNE											
10...	1	--	<1	0	0	.00	4	2	2	1600	1500
JULY											
15...	--	--	--	--	--	--	--	--	--	2600	2100
AUG											
11...	0	--	<1	0	0	.00	4	3	1	1400	970
SEPT											
01...	--	--	--	--	--	--	--	--	--	890	680

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 6 FOURCHE MALINE NEAR WILBURTON											
DATE	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, SUS- PENDE RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, SUS- PENDE RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY SUS- PENDE RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)
AUG, 1978											
10...	470	--	--	45	--	--	1400	--	--	.9	4
DEC	--	--	--	130	--	--	--	--	--	<.1	<1
15...	--	--	--	9	--	--	60	--	--	<.1	<1
JAN, 1979	440	--	--	32	--	--	--	--	--	<.1	<1
09...	--	--	--	28	--	--	--	--	--	<.1	<1
FEB	--	--	--	10	--	--	40	--	--	1.0	<10
MAR	--	--	--	20	--	--	--	--	--	<.1	<1
02...	120	--	--	27	--	--	40	--	--	.3	<10
07...	70	--	--	64	--	--	--	--	--	.6	<1
14...	--	--	--	22	--	--	80	--	--	--	--
MAY	--	--	--	2	--	--	50	--	--	.4	<1
04...	310	--	--	<2	--	--	90	--	--	<.1	3
10...	210	--	--	ND	--	--	60	--	--	<.1	<1
25...	--	--	--	ND	--	--	80	--	--	<.1	<1
JUNE	290	--	--	ND	--	--	80	--	--	<.1	<10
07...	160	--	--	ND	--	--	220	--	--	<.1	<10
11...	140	--	--	ND	--	--	--	--	--	<.1	<1
16...	430	--	--	ND	--	--	--	--	--	<.1	<1
25...	--	--	--	ND	--	--	--	--	--	<.1	<10
JULY	600	--	--	ND	--	--	--	--	--	<.1	<10
11...	--	--	--	ND	--	--	--	--	--	<.1	<1
AUG	--	--	--	ND	--	--	--	--	--	<.1	<1
14...	--	--	--	ND	--	--	--	--	--	<.1	<1
17...	--	--	--	ND	--	--	--	--	--	<.1	<1
SEPT	270	--	--	ND	--	--	270	--	--	<.1	<10
14...	210	--	--	ND	--	--	310	--	--	<.1	<10
27...	--	--	--	0	--	--	280	--	--	--	<10
OCT	190	--	--	0	--	--	--	--	--	--	<10
02...	--	--	--	0	--	--	--	--	--	.0	0
NOV	--	--	--	0	--	--	--	--	--	.0	1
28...	--	--	--	0	--	--	--	--	--	.0	<10
DEC	--	--	--	0	--	--	150	--	--	.0	<10
14...	--	--	--	0	--	--	--	--	--	.0	<10
JAN, 1980	90	--	--	0	--	--	--	--	--	.0	<10
16...	--	--	--	0	--	--	--	--	--	.0	<10

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 6 FOURCHE MALINE NEAR WILBURTON

DATE	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL, RECOV- ERABLE (UG/L AS PB)	LEAD, SUS- PENDE RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, TOTAL, RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, SUS- PENDE RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY SUS- PENDE RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)
FEB, 1980											
04...	--	--	--	0	--	--	--	--	--	.1	0
MAR											
13...	--	--	--	0	--	--	--	--	--	.0	0
APR											
03...	180	--	--	0	--	--	130	--	--	.0	<10
MAY											
16...	140	--	--	0	--	--	130	--	--	.1	<10
22...	100	--	--	1	--	--	80	--	--	.0	<10
JUNE											
16...	20	--	--	1	--	--	340	--	--	.0	<10
JULY											
10...	620	--	--	2	--	--	430	--	--	.0	<10
AUG											
08...	--	--	--	3	--	--	--	--	--	.1	0
OCT											
29...	150	7	5	2	200	80	120	.1	.1	.0	--
NOV											
08...	290	--	--	--	150	70	80	--	--	--	--
DEC											
23...	100	17	15	2	100	10	90	.0	.0	.0	--
JAN, 1981											
23...	350	--	--	--	160	30	130	--	--	--	--
FEB											
12...	180	19	19	0	70	30	40	.1	.0	.1	--
MAR											
13...	190	--	--	--	90	40	50	--	--	--	--
APR											
09...	270	0	0	2	80	20	60	.1	.1	.0	--
23...	540	74	48	26	210	90	120	.4	.3	.1	--
MAY											
14...	340	--	--	--	110	40	70	--	--	--	--
JUNE											
10...	140	23	19	4	90	40	50	.1	.0	.1	--
JULY											
15...	550	--	--	--	350	80	270	--	--	--	--
AUG											
11...	430	7	7	0	330	50	280	.1	.1	.0	--
SEPT											
01...	210	--	--	--	470	10	460	--	--	--	--

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 6 FOURCHE MALINE NEAR WILBURTON

DATE	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, SUS- PENDE RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, SUS- PENDE RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDE TOTAL (MG/L AS C)
AUG, 1978										
10...	--	--	--	--	--	--	--	<20	--	1.9
DEC										
15...	--	--	--	--	--	--	--	--	--	--
JAN, 1979										
09...	--	--	--	--	--	--	--	<3	7.1	.30
FEB										
03...	--	--	--	--	--	--	--	--	--	--
MAR										
02...	--	--	--	--	--	--	--	--	--	--
APR										
02...	--	--	--	--	--	--	--	8	--	--
07...	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	3	--	--
MAY										
04...	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	<20	5.0	.90
25...	--	--	--	--	--	--	--	<20	9.3	--
JUNE										
07...	--	--	--	--	--	--	--	<20	11	1.6
11...	--	--	--	--	--	--	--	<20	7.9	1.3
16...	--	--	--	--	--	--	--	<20	7.8	1.0
25...	--	--	--	--	--	--	--	5	6.8	--
JULY										
11...	--	--	--	--	--	--	--	8	8.2	.80
AUG										
14...	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--
SEPT										
14...	--	--	--	--	--	--	--	<3	8.7	.50
27...	--	--	--	--	--	--	--	<3	5.3	1.2
OCT										
02...	--	--	--	--	--	--	--	6	7.7	.60
NOV										
28...	--	--	--	--	--	--	--	--	--	--
DEC										
14...	--	--	--	--	--	--	--	--	--	--
JAN, 1980										
16...	--	--	--	--	--	--	--	10	7.0	--

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 6 FOURCHE MALINE NEAR WILBURTON

DATE	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, SUS- PENDE RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, SUS- PENDE TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, SUS- PENDE RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDE TOTAL (MG/L AS C)
FEB, 1980											
04...	--	--	--	--	--	--	--	--	--	--	--
MAR											
13...	--	--	--	--	--	--	--	--	--	--	--
APR											
03...	--	--	--	--	--	--	--	--	5	4.5	1.0
MAY											
16...	--	--	--	--	--	--	--	--	<3	11	--
22...	--	--	--	--	--	--	--	--	9	--	--
JUNE											
16...	--	--	--	--	--	--	--	--	10	6.6	1.4
JULY											
10...	--	--	--	--	--	--	--	--	20	7.7	--
AUG											
08...	--	--	--	--	--	--	--	--	--	--	--
OCT											
29...	6	2	4	0	0	0	10	--	<3	5.4	1.4
NOV											
08...	--	--	--	--	--	--	--	--	--	--	--
DEC											
23...	2	2	0	0	0	0	30	10	20	8.5	--
JAN, 1981											
23...	--	--	--	--	--	--	--	--	--	--	--
FEB											
12...	3	0	3	0	0	0	20	20	4	13	1.2
MAR											
13...	--	--	--	--	--	--	--	--	--	--	--
APR											
09...	6	6	0	0	0	0	10	0	20	.50	.40
23...	5	3	2	0	0	0	50	50	5	--	--
MAY											
14...	--	--	--	--	--	--	--	--	--	--	--
JUNE											
10...	9	7	2	0	0	0	150	110	40	9.8	.40
JULY											
15...	--	--	--	--	--	--	--	--	--	--	--
AUG											
11...	3	2	1	0	0	0	10	0	5	6.6	.90
SEPT											
01...	--	--	--	--	--	--	--	--	--	--	--

Table 4.---Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 7 RED OAK CREEK NEAR RED OAK											
		NITRO- GEN DIS- SOLVED (MG/L AS N)	HARD- NESS (MG/L AS CACO3)	HARD- NESS NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	SULFATE DIS- SOLVED (MG/L AS SO4)
DATE	TIME										
DEC, 1978	1515	--	--	--	--	--	--	--	--	--	--
JAN, 1979	1450	--	33	7	7.1	3.8	13	44	1	2.4	23
FEB	1020	--	--	--	--	--	--	--	--	--	--
MAR	0845	--	--	--	--	--	--	--	--	--	--
APR	1415	--	22	2	4.8	2.5	8.3	43	.8	1.4	15
MAY	1452	--	26	1	6.2	2.6	5.8	31	.5	1.9	11
JUNE	1020	--	25	2	5.4	2.7	7.3	37	.7	1.7	14
JULY	1029	--	19	3	5.1	1.5	2.6	21	.3	1.8	7.4
AUG	1105	--	29	4	6.5	3.2	8.2	36	.7	1.6	14
SEPT	0905	--	33	4	7.3	3.7	10	38	.8	1.9	17
OCT	0925	--	39	1	8.4	4.4	11	36	.8	2.4	20
NOV	0900	--	30	0	6.6	3.4	7.1	31	.6	3.4	14
DEC	0930	--	--	--	--	--	--	--	--	--	--
JAN, 1980	0930	--	--	--	--	--	--	--	--	--	--
FEB	0905	--	46	3	10	5.2	16	40	1	4.0	27
MAR	0910	--	--	--	--	--	--	--	--	--	--
APR	0835	--	--	--	--	--	--	--	--	--	--
MAY	0945	--	35	6	7.5	4.0	14	44	1	2.5	25
JUNE	0915	--	15	2	3.2	1.7	3.4	29	.4	2.2	4.9
JULY	0935	--	32	4	7.0	3.5	12	42	1	3.3	21

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 7 RED OAK CREEK NEAR RED OAK											
DATE	TIME	NITRO- GEN DIS- SOLVED (MG/L AS N)	HARD- NESS (MG/L AS CACO3)	HARD- NESS NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	SULFATE DIS- SOLVED (MG/L AS SO4)
OCT, 1980											
25...	1620	1.2	68	0	14	7.9	35	51	2	5.4	38
NOV											
21...	1244	--	75	0	15	9.1	36	49	2	6.1	34
DEC											
04...	1400	.84	58	0	12	6.9	22	43	1	3.9	28
JAN, 1981											
15...	1330	--	50	5	10	6.1	17	41	1	2.9	34
FEB											
10...	1300	2.0	24	0	4.6	3.1	8.9	40	.8	3.3	21
MAR											
12...	1315	--	33	2	6.7	3.9	12	42	.9	2.0	24
APR											
27...	1450	1.4	37	0	7.5	4.4	13	41	1	2.9	--
MAY											
22...	1550	--	42	8	9.0	4.7	13	39	.9	2.5	25
JUNE											
08...	1500	.34	24	2	5.3	2.7	7.0	36	.6	2.2	--
AUG											
19...	1300	.69	30	0	6.7	3.3	8.6	35	.7	3.5	--
SEPT											
23...	1300	--	34	0	7.2	3.8	6.4	26	.5	4.2	6.0
DEC											
16...	1545	--	38	--	7.8	4.5	15	44	1	2.7	24

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 7 RED OAK CREEK NEAR RED OAK											
DATE	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SI02)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N03)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N02)
DEC, 1978	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--
JAN, 1979	9.5	<.10	9.5	88	86	.12	.19	.38	.010	1.7	.03
09...	--	--	--	--	--	--	--	--	--	--	--
FEB	--	--	--	--	--	--	--	--	--	--	--
03...	--	--	--	--	--	--	--	--	--	--	--
MAR	--	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--	--
APR	--	--	--	--	--	--	--	--	--	--	--
07...	4.6	.10	10	57	59	.08	2.4	.09	.010	.40	.03
14...	--	--	--	--	--	--	--	--	--	--	--
MAY	3.1	.10	8.5	55	55	.07	6.2	.12	.010	.53	.03
04...	3.9	.20	9.0	63	59	.09	1.8	.08	.010	.35	.03
25...	--	--	--	--	--	--	--	--	--	--	--
JUNE	3.0	.10	5.0	40	37	.05	73	.07	.020	.31	.07
07...	4.2	.10	9.0	72	66	.10	1.9	.70	.010	3.1	.03
11...	4.8	.10	7.8	73	71	.10	.11	.00	.010	.00	.03
16...	6.2	.10	7.6	90	83	.12	.30	.00	<.010	.00	.00
25...	--	--	--	--	--	--	--	--	--	--	--
SEPT	3.6	.10	5.5	70	81	.10	.00	3.5	.010	15	.03
06...	--	--	--	--	--	--	--	--	--	--	--
NOV	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--
DEC	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--
JAN, 1980	11	.10	2.3	125	100	.17	.04	.21	.010	.93	.03
16...	--	--	--	--	--	--	--	--	--	--	--
FEB	--	--	--	--	--	--	--	--	--	--	--
04...	--	--	--	--	--	--	--	--	--	--	--
MAR	--	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--	--
APR	7.3	.10	7.0	84	86	.11	2.7	.16	.030	.71	.10
03...	--	--	--	--	--	--	--	--	--	--	--
MAY	2.3	.10	5.4	54	32	.07	19	.09	.010	.40	.03
16...	10	.50	9.8	99	84	.13	2.7	.06	.010	.27	.03
JUNE	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 7 RED OAK CREEK NEAR RED OAK											
DATE	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS NO3)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS NO2)
OCT, 1980											
25...	24	.20	7.2	188	180	.26	.01	--	--	--	--
NOV											
21...	16	.10	8.4	154	180	.21	.01	--	--	--	--
DEC											
04...	9.1	.20	6.5	142	130	.19	.00	--	--	--	--
JAN, 1981											
15...	12	.20	2.4	115	110	.16	.00	--	--	--	--
FEB											
10...	7.9	.10	1.2	83	65	.11	8.2	--	--	--	--
MAR											
12...	7.9	.10	6.6	78	82	.11	.34	--	--	--	--
APR											
27...	6.0	.10	7.9	102	--	.14	.13	--	--	--	--
MAY											
22...	6.5	.10	7.5	89	89	.12	.06	--	--	--	--
JUNE											
08...	3.7	.10	12	65	--	.09	3.3	--	--	--	--
AUG											
19...	4.4	.10	8.6	75	--	.10	.19	--	--	--	--
SEPT											
23...	12	.20	6.3	80	69	.11	.00	--	--	--	--
DEC											
16...	9.4	.10	6.8	100	--	.14	.30	--	--	--	--

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 7 RED OAK CREEK NEAR RED OAK										
DATE	NITRO- GEN, NO ₂ +NO ₃ DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH ₄)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, NH ₄ + ORG. SUSP. TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHATE, TOTAL (MG/L AS P04)	PHOS- PHORUS TOTAL (MG/L AS P04)
DEC, 1978										
JAN, 1979										
09...	.39	.220	.28	--	--	--	--	.230	.71	--
FEB										
03...	--	--	--	--	--	--	--	--	--	--
MAR										
02...	--	--	--	--	--	--	--	--	--	--
APR										
07...	--	.030	.04	--	--	--	--	.060	.18	.18
MAY										
04...	.13	.060	.08	--	--	--	--	.080	.25	.25
25...	.09	<.010	.00	--	--	--	--	.080	.25	.25
JUNE										
07...	.09	<.010	.00	--	--	--	--	.130	.40	.40
11...	.71	<.010	.00	--	--	--	--	.080	.25	.25
16...	<.10	<.010	.00	--	--	--	--	.030	.09	.09
25...	<.10	<.010	.00	--	--	--	--	.030	.09	.09
SEPT										
06...	3.5	.010	.01	--	--	--	--	.120	--	.37
NOV										
20...	--	--	--	--	--	--	--	--	--	--
DEC										
19...	--	--	--	--	--	--	--	--	--	--
JAN, 1980										
16...	.22	.230	.30	--	--	--	--	.120	--	.37
FEB										
04...	--	--	--	--	--	--	--	--	--	--
MAR										
13...	--	--	--	--	--	--	--	--	--	--
APR										
03...	.19	.120	.15	--	--	--	--	.270	--	.83
MAY										
16...	.10	.180	.23	--	--	--	--	.110	--	.34
JUNE										
23...	.07	.030	.04	--	--	--	--	.050	--	.15

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 7 RED OAK CREEK NEAR RED OAK											
DATE	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC DIS- (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHATE, TOTAL (MG/L AS P04)	PHOS- PHORUS TOTAL (MG/L AS P04)	
OCT, 1980											
25...	.23	.000	--	1.2	1.2	.26	.94	.110	--	.34	
NOV											
21...	--	--	--	--	--	--	--	--	--	--	
DEC											
04...1981	.00	.100	--	.84	.94	.10	.84	.160	--	.49	
15...	--	--	--	--	--	--	--	--	--	--	
FEB											
10...	.51	.320	--	1.8	2.1	.60	1.5	.130	--	.40	
MAR											
12...	--	--	--	--	--	--	--	--	--	--	
APR											
27...	.29	.120	--	2.7	2.8	1.7	1.1	.210	--	.64	
MAY											
22...	--	--	--	--	--	--	--	--	--	--	
JUNE											
08...	.09	.010	--	1.4	1.4	1.2	.25	.250	--	.77	
AUG											
19...	.09	.160	--	1.0	1.2	.60	.60	.110	--	.34	
SEPT											
23...	--	--	--	--	--	--	--	--	--	--	
DEC											
16...	--	--	--	--	--	--	--	--	--	--	

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 7 RED OAK CREEK NEAR RED OAK											
DATE	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	ALUM- INUM, TOTAL RECOV- ERABLE (UG/L AS AL)	ALUM- INUM, SUS- PENDE RECOV. (UG/L AS AL)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUS- PENDE TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	BERYL- LIUM, SUS- PENDE RECOV. (UG/L AS BE)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	BORON, DIS- SOLVED (UG/L AS B)
DEC, 1978											
15...	--	--	--	20	--	--	1	--	--	--	--
JAN, 1979											
09...	--	--	--	50	--	--	1	--	--	--	30
FEB											
03...	--	--	--	50	--	--	<1	--	--	--	--
MAR											
02...	--	--	--	30	--	--	<1	--	--	--	--
APR											
07...	--	--	--	50	--	--	1	--	--	--	--
14...	--	--	--	10	--	--	1	--	--	--	50
MAY											
04...	--	--	--	40	--	--	<1	--	--	--	30
25...	--	--	--	30	--	--	1	--	--	--	30
JUNE											
07...	--	--	--	60	--	--	1	--	--	--	0
11...	--	--	--	30	--	--	1	--	--	--	50
16...	--	--	--	10	--	--	1	--	--	--	30
25...	--	--	--	20	--	--	1	--	--	--	70
SEPT											
06...	--	--	--	<100	--	--	1	--	--	--	50
NOV											
20...	--	--	--	100	--	--	1	--	--	--	--
DEC											
19...	--	--	--	70	--	--	2	--	--	--	--
JAN, 1980											
16...	--	--	--	30	--	--	1	--	--	--	50
FEB											
04...	--	--	--	20	--	--	1	--	--	--	--
MAR											
13...	--	--	--	30	--	--	1	--	--	--	--
APR											
03...	--	--	--	90	--	--	1	--	--	--	50
MAY											
16...	--	--	--	50	--	--	1	--	--	--	80
JUNE											
23...	--	--	--	30	--	--	1	--	--	--	60

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 7 RED OAK CREEK NEAR RED OAK											
DATE	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	ALUM- INUM, TOTAL- RECOV- ERABLE (UG/L AS AL)	ALUM- INUM, SUS- PENDE RECOV. (UG/L AS AL)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUS- PENDE TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BERYL- LIUM, TOTAL- RECOV- ERABLE (UG/L AS BE)	BERYL- LIUM, SUS- PENDE RECOV. (UG/L AS BE)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	BORON, DIS- SOLVED (UG/L AS B)
OCT, 1980											
25...	.050	--	--	--	1	0	1	0	--	<1	120
NOV											
21...	--	--	--	--	--	--	--	--	--	--	130
DEC											
04...	.110	--	--	--	1	0	1	0	--	<1	80
JAN, 1981											
15...	--	--	--	--	--	--	--	--	--	--	30
FEB											
10...	.120	--	--	--	2	1	1	0	0	.0	140
MAR											
12...	--	--	--	--	--	--	--	--	--	--	40
APR											
27...	.080	1400	760	640	2	1	1	0	--	<1	30
MAY											
22...	--	830	830	0	--	--	--	--	--	--	30
JUNE											
08...	.110	400	400	0	1	0	1	0	--	<1	20
AUG											
19...	.060	2200	1700	500	6	0	6	0	--	<1	40
SEPT											
23...	--	4100	3500	600	--	--	--	--	--	--	40
DEC											
16...	--	--	--	--	--	--	--	--	--	--	20

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 7 RED OAK CREEK NEAR RED OAK											
DATE	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM SUS- PENDE RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, SUS- PENDE RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, SUS- PENDE RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, SUS- PENDE RECOV- ERABLE (UG/L AS FE)
DEC, 1978	--	--	4	--	--	ND	--	--	<2	--	--
JAN, 1979	--	--	5	--	--	ND	--	--	2	--	--
FEB 09...	--	--	3	--	--	ND	--	--	4	--	--
MAR 03...	--	--	4	--	--	ND	--	--	2	--	--
APR 02...	--	--	7	--	--	ND	--	--	5	--	--
APR 07...	--	--	4	--	--	ND	--	--	2	--	--
APR 14...	--	--	ND	--	--	ND	--	--	<2	--	--
MAY 04...	--	--	<2	--	--	<20	--	--	ND	--	--
MAY 25...	--	--	ND	--	--	<20	--	--	2	--	--
JUNE 07...	--	--	2	--	--	<20	--	--	4	--	--
JUNE 11...	--	--	<2	--	--	20	--	--	3	--	--
JUNE 16...	--	--	<2	--	--	<20	--	--	ND	--	--
JUNE 25...	--	--	<2	--	--	20	--	--	4	--	--
SEPT 06...	--	--	2	--	--	.00	--	--	0	--	--
NOV 20...	--	--	1	--	--	.00	--	--	0	--	--
DEC 19...	--	--	<1	--	--	.00	--	--	0	--	--
JAN, 1980	--	--	0	--	--	.00	--	--	0	--	--
FEB 16...	--	--	0	--	--	.00	--	--	3	--	--
FEB 04...	--	--	<1	--	--	.00	--	--	2	--	--
MAR 13...	--	--	1	--	--	.00	--	--	6	--	--
APR 03...	--	--	1	--	--	.00	--	--	3	--	--
MAY 16...	--	--	1	--	--	.00	--	--	2	--	--
JUNE 23...	--	--	1	--	--	.00	--	--	3	--	--

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 7 RED OAK CREEK NEAR RED OAK											
DATE	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM SUS- PENDE D RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, SUS- PENDE D RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, SUS- PENDE D RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, SUS- PENDE D RECOV- ERABLE (UG/L AS FE)
OCT, 1980											
25...	0	0	1	10	10	.00	9	4	5	670	590
NOV											
21...	--	--	--	--	--	--	--	--	--	2000	1900
DEC											
04...1981	0	--	<1	0	0	.00	5	2	3	1400	1000
JAN, 1981											
15...	--	--	--	--	--	--	--	--	--	1500	1400
FEB											
10...	0	0	0	10	10	.00	8	0	10	12000	12000
MAR											
12...	--	--	--	--	--	--	--	--	--	1900	1800
APR											
27...	0	--	<1	30	30	.00	5	3	2	2600	2500
MAY											
22...	--	--	--	--	--	--	--	--	--	980	820
JUNE											
08...	1	--	<1	0	0	.00	5	3	2	2000	1800
AUG											
19...	1	0	1	10	0	10	7	5	2	2900	2700
SEPT											
23...	--	--	--	--	--	--	--	--	--	3500	3400
DEC											
16...	--	--	--	--	--	--	--	--	--	1100	880

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 7 RED OAK CREEK NEAR RED OAK										
DATE	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL, RECOV- ERABLE (UG/L AS PB)	LEAD, SUS- PENDE RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, TOTAL, RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, SUS- PENDE RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL, RECOV- ERABLE (UG/L AS HG)	MERCURY SUS- PENDE RECOV- ERABLE (UG/L AS HG)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)
DEC, 1978										
15...	--	--	--	31	--	--	--	--	--	<1
JAN, 1979										
09...	180	--	--	22	--	--	30	--	--	<1
FEB										
03...	--	--	--	26	--	--	--	--	--	<1
MAR										
02...	--	--	--	17	--	--	--	--	--	<1
APR										
07...	100	--	--	57	--	--	--	--	--	<1
14...				22	--	--	30	--	--	<10
MAY										
04...	210	--	--	3	--	--	20	--	--	<1
25...	160	--	--	ND	--	--	30	--	--	<1
JUNE										
07...	190	--	--	ND	--	--	40	--	--	<1
11...	180	--	--	ND	--	--	40	--	--	<1
16...	220	--	--	ND	--	--	20	--	--	<1
25...	40	--	--	ND	--	--	<10	--	--	<10
SEPT										
06...	40	--	--	ND	--	--	170	--	--	<10
NOV										
20...	--	--	--	0	--	--	--	--	--	3
DEC										
19...	--	--	--	2	--	--	--	--	--	1
JAN, 1980										
16...	50	--	--	2	--	--	30	--	--	<10
FEB										
04...	--	--	--	0	--	--	--	--	--	0
MAR										
13...	--	--	--	0	--	--	--	--	--	0
APR										
03...	70	--	--	0	--	--	50	--	--	<10
MAY										
16...	170	--	--	3	--	--	80	--	--	<10
JUNE										
23...	80	--	--	2	--	--	20	--	--	<10

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 7 RED OAK CREEK NEAR RED OAK											
DATE	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, SUS- PENDE RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, SUS- PENDE RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY SUS- PENDE RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)
OCT, 1980											
25...	80	3	1	2	50	40	8	.1	.1	.0	--
NOV											
21...	120	--	--	--	130	90	40	--	--	--	--
DEC											
04...1981	360	5	5	0	110	80	30	.1	.1	.0	--
JAN, 1981											
15...	110	--	--	--	170	50	120	--	--	--	--
FEB											
10...	230	11	11	0	310	280	30	.1	.0	.1	--
MAR											
12...	150	--	--	--	70	30	40	--	--	--	--
APR											
27...	110	5	1	4	220	100	120	.2	.2	.0	--
MAY											
22...	60	--	--	--	60	40	20	--	--	--	--
JUNE											
08...	230	17	13	4	60	30	30	.1	.1	.0	--
AUG											
19...	180	7	7	0	90	80	11	.1	.1	.0	--
SEPT											
23...	140	--	--	--	330	270	62	--	--	--	--
DEC											
16...	220	--	--	--	40	10	28	--	--	--	--

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 7 RED OAK CREEK NEAR RED OAK										
DATE	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, SUS- PENDE RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, SUS- PENDE RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDE TOTAL (MG/L AS C)
DEC, 1978										
JAN, 1979	--	--	--	--	--	--	--	--	--	--
JAN, 09...	--	--	--	--	--	--	--	<3	6.4	.70
FEB	--	--	--	--	--	--	--	--	--	--
MAR	--	--	--	--	--	--	--	--	--	--
MAR 03...	--	--	--	--	--	--	--	--	--	--
APR	--	--	--	--	--	--	--	--	--	--
APR 02...	--	--	--	--	--	--	--	--	--	--
APR 07...	--	--	--	--	--	--	--	--	--	--
APR 14...	--	--	--	--	--	--	--	--	--	--
MAY	--	--	--	--	--	--	--	--	--	--
MAY 04...	--	--	--	--	--	--	--	--	2.3	1.2
MAY 25...	--	--	--	--	--	--	--	--	5.1	--
JUNE	--	--	--	--	--	--	--	--	11	2.1
JUNE 07...	--	--	--	--	--	--	--	--	4.0	.70
JUNE 11...	--	--	--	--	--	--	--	--	5.5	.90
JUNE 16...	--	--	--	--	--	--	--	--	5.6	--
JUNE 25...	--	--	--	--	--	--	--	--	15	1.3
SEPT	--	--	--	--	--	--	--	--	--	--
SEPT 06...	--	--	--	--	--	--	--	--	--	--
NOV	--	--	--	--	--	--	--	--	--	--
NOV 20...	--	--	--	--	--	--	--	--	--	--
DEC	--	--	--	--	--	--	--	--	--	--
DEC 19...	--	--	--	--	--	--	--	--	--	--
JAN, 1980	--	--	--	--	--	--	--	--	--	--
JAN, 16...	--	--	--	--	--	--	--	6	59	1.2
FEB	--	--	--	--	--	--	--	--	--	--
FEB 04...	--	--	--	--	--	--	--	--	--	--
MAR	--	--	--	--	--	--	--	--	--	--
MAR 13...	--	--	--	--	--	--	--	--	--	--
APR	--	--	--	--	--	--	--	--	--	--
APR 03...	--	--	--	--	--	--	--	5	6.1	1.2
MAY	--	--	--	--	--	--	--	--	--	--
MAY 16...	--	--	--	--	--	--	--	--	11	3.5
JUNE	--	--	--	--	--	--	--	--	10	--
JUNE 23...	--	--	--	--	--	--	--	8	--	--

Table 4.---Concentration of selected common constituents, nutrients, and trace elements of water at selected sites---Continued

SITE 7 RED OAK CREEK NEAR RED OAK										
DATE	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, SUS- PENDE RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, SUS- PENDE RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDE TOTAL (MG/L AS C)
OCT, 1980										
25...	5	5	0	0	0	30	20	6	13	1.1
NOV										
21...	--	--	--	--	--	--	--	--	--	--
DEC										
04...	8	3	5	0	0	40	30	7	--	--
JAN, 1981										
15...	--	--	--	--	--	--	--	--	--	--
FEB										
10...	14	11	3	0	0	60	40	20	23	1.6
MAR										
12...	--	--	--	--	--	--	--	--	--	--
APR										
27...	6	4	2	0	0	30	0	40	10	.60
MAY										
22...	--	--	--	--	--	--	--	--	--	--
JUNE										
08...	7	5	2	0	0	30	10	20	8.4	1.1
AUG										
19...	5	2	3	0	0	60	50	11	8.4	1.6
SEPT										
23...	--	--	--	--	--	--	--	--	--	--
DEC										
16...	--	--	--	--	--	--	--	--	--	--

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 8 CASTON CREEK AT WISTER

DATE	TIME	NITRO- GEN DIS- SOLVED (MG/L AS N)	HARD- NESS (MG/L AS CACO3)	HARD- NESS NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	SULFATE DIS- SOLVED (MG/L AS SO4)
JULY, 1978											
17...	1700	--	39	11	6.8	5.3	11	37	.8	1.5	18
AUG											
15...	1200	--	46	12	7.9	6.3	13	37	.9	1.9	19
DEC											
12...	1255	--	--	--	--	--	--	--	--	--	--
JAN, 1979											
03...	1300	--	27	16	5.1	3.4	7.2	35	.6	1.6	18
FEB											
02...	1400	--	--	--	--	--	--	--	--	--	--
MAR											
08...	1017	--	--	--	--	--	--	--	--	--	--
APR											
06...	1550	--	22	7	4.0	2.9	5.7	34	.5	1.4	14
19...	1622	--	23	7	4.1	3.1	6.1	35	.6	1.4	14
MAY											
01...	1420	--	17	3	3.1	2.2	4.7	36	.5	1.4	11
14...	1005	--	10	0	2.4	1.0	2.7	33	.4	1.6	10
26...	1658	--	15	3	2.9	1.8	3.4	32	.4	1.1	9.1
JUNE											
04...	1430	--	23	2	4.2	3.0	5.4	32	.5	1.4	12
14...	1320	--	35	0	6.3	4.6	9.5	36	.7	1.5	15
29...	1455	--	48	22	--	5.0	8.4	27	.5	1.8	13
JULY											
03...	1235	--	--	--	--	--	--	--	--	--	--
AUG											
20...	1225	--	37	0	7.1	4.6	8.1	31	.6	2.2	15
SEPT											
12...	1155	--	34	0	6.4	4.3	8.2	33	.6	2.1	12
25...	1300	--	36	0	6.9	4.5	8.4	32	.6	2.9	15
OCT											
23...	0955	--	--	--	--	--	--	--	--	--	--
NOV											
19...	1210	--	--	--	--	--	--	--	--	--	--
DEC											
18...	1225	--	31	9	5.7	4.0	8.5	36	.7	1.6	23
JAN, 1980											
15...	1145	--									

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 8 CASTON CREEK AT WISIER

DATE	TIME	NITRO- GEN DIS- SOLVED (MG/L AS N)	HARD- NESS (MG/L AS CAC03)	HARD- NESS NONCAR- BONATE (MG/L CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	SULFATE DIS- SOLVED (MG/L AS SO4)
FEB, 1980	1200	--	--	--	--	--	--	--	--	--	--
MAR 11...	1200	--	--	--	--	--	--	--	--	--	--
MAR 17...	1221	--	--	--	--	--	--	--	--	--	--
MAR 31...	1225	--	--	--	--	--	--	--	--	--	--
APR 10...	1455	--	27	9	4.9	3.7	7.9	37	.7	1.6	20
MAY 08...	1300	--	23	6	4.3	3.0	6.5	36	.6	1.6	15
JUNE 12...	1150	--	45	11	9.0	5.4	9.9	31	.7	1.9	16
JUNE 19...	1410	--	14	3	3.0	1.6	3.1	27	.4	3.2	8.7
JULY 07...	1000	--	35	0	6.8	4.4	6.6	27	.5	3.0	10
AUG 19...	1045	--	--	--	--	--	--	--	--	--	--
OCT 24...	1215	1.1	58	35	11	7.5	14	32	.8	4.5	47
NOV 17...	1600	--	34	6	6.6	4.3	8.4	33	.6	2.6	23
DEC 16...	1415	1.9	29	9	5.5	3.8	7.5	34	.6	1.9	21
JAN, 1981	1310	--	38	16	7.7	4.5	10	35	.7	1.6	25
FEB 17...	1610	1.8	28	13	5.1	3.6	8.4	38	.7	1.4	24
MAR 16...	1400	--	27	10	4.9	3.6	8.0	36	.7	3.2	21
APR 20...	1255	.56	34	8	7.0	4.1	8.8	34	.7	2.1	22
MAY 18...	1640	--	22	6	4.3	2.7	5.3	32	.5	1.8	9.6
JUNE 23...	1040	1.2	27	11	5.2	3.4	5.9	30	.5	2.1	9.6
JULY 20...	1410	--	41	3	8.0	5.2	8.8	30	.6	2.4	10
AUG 17...	1420	.59	41	2	8.1	5.0	8.3	29	.6	3.1	12
SEPT 14...	1610	--	48	6	9.5	5.8	10	29	.6	3.5	8.0

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 8 CASTON CREEK AT WISTER											
DATE	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SI02)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N03)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N02)
JULY, 1978											
17...	6.6	.10	7.6	75	75	.10	.86	.33	1.5	<.010	.00
AUG											
15...	8.0	.10	6.5	83	83	.11	.20	.10	.44	<.010	.00
DEC											
12...	--	--	--	--	--	--	--	--	--	--	--
JAN, 1979											
03...	6.2	<.10	7.6	64	63	.09	11	1.6	7.1	<.010	.00
FEB											
02...	--	--	--	--	--	--	--	--	--	--	--
MAR											
08...	--	--	--	--	--	--	--	--	--	--	--
APR											
06...	4.6	.10	7.8	50	52	.07	10	.62	2.7	.010	.03
MAY											
01...	4.6	.10	6.1	57	51	.08	5.0	.34	1.5	.010	.03
14...	3.2	.10	7.6	43	43	.06	16	.29	1.3	<.010	.00
26...	1.9	.10	7.2	41	35	.06	65	.28	1.2	.010	.03
JUNE											
04...	2.4	.10	7.7	52	37	.07	52	.20	.89	.010	.03
14...	4.2	.10	8.3	61	53	.08	4.8	.37	1.6	.010	.03
29...	5.7	.10	9.2	76	73	.10	.53	.09	.40	.010	.03
JULY											
03...	5.8	.10	7.8	73	69	.10	.31	.08	.35	.010	.03
AUG											
20...	--	--	--	--	--	--	--	--	--	--	--
SEPT											
12...	5.0	.10	7.2	72	72	.10	.31	.11	.49	.010	.03
25...	6.3	.10	5.4	73	66	.10	.46	.12	.53	.010	.03
OCT											
23...	7.4	.10	5.7	71	72	.10	1.8	.00	.00	.010	.03
NOV											
19...	--	--	--	--	--	--	--	--	--	--	--
DEC											
18...	--	--	--	--	--	--	--	--	--	--	--
JAN, 1980											
15...	7.0	.10	4.7	66	69	.09	1.2	.29	1.3	.010	.03

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 8 CASTON CREEK AT WISTER										
DATE	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SI02)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N03)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N02)
FEB, 1980										
11...	--	--	--	--	--	--	--	--	--	--
MAR										
17...	--	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--	--
APR										
10...	5.6	.00	5.3	62	61	.08	3.7	.20	.89	.00
MAY										
08...	3.8	.10	8.0	56	54	.08	6.7	.19	.84	.03
JUNE										
12...	5.9	.00	6.2	77	76	.10	.35	.13	.58	.00
19...	2.8	.10	4.4	47	36	.06	8.4	.31	1.4	.10
JULY										
07...	4.4	.20	8.4	77	66	.10	.13	.00	.00	.03
AUG										
19...	--	--	--	--	--	--	--	--	--	--
OCT										
24...	16	.10	6.1	131	120	.18	.23	--	--	--
NOV										
17...	6.3	.10	4.2	80	72	.11	1.6	--	--	--
DEC										
16...	6.2	.00	5.2	68	63	.09	2.9	--	--	--
JAN, 1981										
22...	7.3	.10	3.5	76	73	.10	.77	--	--	--
FEB										
17...	6.2	.10	5.7	61	63	.08	4.8	--	--	--
MAR										
16...	5.8	.10	5.1	63	63	.09	4.1	--	--	--
APR										
20...	6.0	.10	4.9	81	71	.11	3.5	--	--	--
MAY										
18...	3.4	--	8.9	57	47	.08	11	--	--	--
JUNE										
23...	4.3	.10	9.9	59	51	.08	2.5	--	--	--
JULY										
20...	6.7	.20	9.8	82	74	.11	.33	--	--	--
AUG										
17...	6.2	.10	9.5	81	76	.11	.37	--	--	--
SEPT										
14...	9.4	.10	8.3	91	80	.12	.18	--	--	--

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 8 CASTON CREEK AT WISTER											
DATE	NITRO- GEN, NO2+N03 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC DTS. (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHATE, TOTAL, (MG/L AS P04)	PHOS- PHORUS TOTAL (MG/L AS P04)	
JULY, 1978											
17...	.33	--	.040	.05	--	--	--	.020	.06	--	
AUG											
15...	.10	--	.050	.06	--	--	--	.020	.06	--	
DEC											
12...	--	--	--	--	--	--	--	--	--	--	
JAN, 1979											
03...	1.6	--	.040	.05	--	--	--	.090	.28	--	
FEB											
02...	--	--	--	--	--	--	--	--	--	--	
MAR											
08...	--	--	--	--	--	--	--	--	--	--	
APR											
06...	--	--	--	--	--	--	--	--	--	--	
19...	.63	--	.040	.05	--	--	--	.030	.09	.09	
MAY											
01...	.35	--	.010	.01	--	--	--	.030	.09	.09	
14...	.29	--	.030	.04	--	--	--	.020	.06	.06	
26...	.29	--	<.010	.00	--	--	--	.040	--	.12	
JUNE											
04...	.21	--	<.010	.00	--	--	--	.050	.15	.15	
14...	.38	--	<.010	.00	--	--	--	.040	.12	.12	
29...	.10	--	.010	.01	--	--	--	.060	--	.18	
JULY											
03...	.09	--	<.010	.00	--	--	--	.020	.06	.06	
AUG											
20...	--	--	--	--	--	--	--	--	--	--	
SEPT											
12...	.12	--	.010	.01	--	--	--	.020	--	.06	
25...	.13	--	<.010	.00	--	--	--	.010	--	.03	
OCT											
23...	.01	--	.030	.04	--	--	--	.030	--	.09	
NOV											
19...	--	--	--	--	--	--	--	--	--	--	
DEC											
18...	--	--	--	--	--	--	--	--	--	--	
JAN, 1980											
15...	.30	--	.100	.13	--	--	--	.020	--	.06	

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 8 CASTON CREEK AT WISLER													
DATE	NITRO- GEN, NO2+N03 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHATE, TOTAL (MG/L AS P04)	PHOS- PHORUS TOTAL (MG/L AS P04)			
FEB, 1980													
11...	--	--	--	--	--	--	--	--	--	--			
MAR													
17...	--	--	--	--	--	--	--	--	--	--			
31...	--	--	--	--	--	--	--	--	--	--			
APR													
10...	.20	.150	.19	--	--	--	--	.050	--	.15			
MAY													
08...	.20	.090	.12	--	--	--	--	.050	--	.15			
JUNE													
12...	.13	.100	.13	--	--	--	--	.040	--	.12			
19...	.34	.230	.30	--	--	--	--	.260	--	.80			
JULY													
07...	.00	.090	.12	--	--	--	--	.080	--	.25			
AUG													
19...	--	--	--	--	--	--	--	--	--	--			
OCT													
24...	.68	.010	--	.59	.60	.16	.44	.070	--	.21			
NOV													
17...	--	--	--	--	--	--	--	--	--	--			
DEC													
16...	1.3	.090	--	.62	.71	.16	.55	.070	--	.21			
JAN, 1981													
22...	--	--	--	--	--	--	--	--	--	--			
FEB													
17...	1.1	.060	--	1.2	1.3	.60	.70	.070	--	.21			
MAR													
16...	--	--	--	--	--	--	--	--	--	--			
APR													
20...	.15	.060	--	.56	.62	.21	.41	.050	--	.15			
MAY													
18...	--	--	--	--	--	--	--	--	--	--			
JUNE													
23...	.35	.070	--	.88	.95	.09	.86	.040	--	.12			
JULY													
20...	--	--	--	--	--	--	--	--	--	--			
AUG													
17...	.09	.140	--	1.1	1.2	.70	.50	.030	--	.09			
SEPT													
14...	--	--	--	--	--	--	--	--	--	--			

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 8 CASTON CREEK AT WISTER											
DATE	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	ALUM- INUM, TOTAL RECOV- ERABLE (UG/L AS AL)	ALUM- INUM, SUS- PENDE RECOV. (UG/L AS AL)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUS- PENDE TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	BERYL- LIUM, SUS- PENDE RECOV. (UG/L AS BE)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	BORON, DIS- SOLVED (UG/L AS B)
JULY, 1978											
17...	--	--	--	20	--	--	1	--	--	--	30
AUG											
15...	--	--	--	<100	--	--	1	--	--	--	40
DEC											
12...	--	--	--	10	--	--	<1	--	--	--	--
JAN, 1979											
03...	--	--	--	70	--	--	<1	--	--	--	30
FEB											
02...	--	--	--	30	--	--	<1	--	--	--	--
MAR											
08...	--	--	--	20	--	--	<1	--	--	--	--
APR											
06...	--	--	--	50	--	--	1	--	--	--	--
19...	--	--	--	10	--	--	<1	--	--	--	<20
MAY											
01...	--	--	--	30	--	--	<1	--	--	--	30
14...	--	--	--	40	--	--	<1	--	--	--	<20
26...	--	--	--	50	--	--	<1	--	--	--	80
JUNE											
04...	--	--	--	30	--	--	<1	--	--	--	<20
14...	--	--	--	60	--	--	1	--	--	--	0
29...	--	--	--	20	--	--	1	--	--	--	<20
JULY											
03...	--	--	--	10	--	--	1	--	--	--	<20
AUG											
20...	--	--	--	<100	--	--	1	--	--	--	--
SEPT											
12...	--	--	--	30	--	--	1	--	--	--	30
25...	--	--	--	<100	--	--	1	--	--	--	<20
OCT											
23...	--	--	--	0	--	--	0	--	--	--	30
NOV											
19...	--	--	--	40	--	--	0	--	--	--	--
DEC											
18...	--	--	--	50	--	--	1	--	--	--	--
JAN, 1980											
15...	--	--	--	10	--	--	0	--	--	--	20

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 8 CASTON CREEK AT WISTER

DATE	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	ALUM- INUM, TOTAL RECOV- ERABLE (UG/L AS AL)	ALUM- INUM, SUS- PENDE RECOV. (UG/L AS AL)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUS- PENDE TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	BERYL- LIUM, SUS- PENDE RECOV. (UG/L AS BE)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	BORON, DIS- SOLVED (UG/L AS B)
FEB, 1980											
11...	--	--	--	150	--	--	0	--	--	--	--
MAR											
17...	--	--	--	20	--	--	0	--	--	--	--
31...	--	--	--	160	--	--	0	--	--	--	--
APR											
10...	--	--	--	10	--	--	1	--	--	--	20
MAY											
08...	--	--	--	60	--	--	1	--	--	--	30
JUNE											
12...	--	--	--	30	--	--	1	--	--	--	40
19...	--	--	--	20	--	--	1	--	--	--	90
JULY											
07...	--	--	--	0	--	--	1	--	--	--	40
AUG											
19...	--	--	--	0	--	--	2	--	--	--	--
OCT											
24...	.020	--	--	--	1	0	1	0	--	<1	40
NOV											
17...	--	--	--	--	--	--	--	--	--	--	40
DEC											
16...	.040	--	--	--	0	0	0	0	0	<1	0
JAN, 1981											
22...	--	--	--	--	--	--	--	--	--	--	10
FEB											
17...	.020	--	--	--	0	0	0	0	--	<1	0
MAR											
16...	--	570	670	1000	--	--	--	--	--	--	20
APR											
20...	.010	300	70	230	1	1	0	0	--	<1	20
MAY											
18...	--	2200	2000	200	--	--	--	--	--	--	170
JUNE											
23...	.010	500	400	100	1	0	1	0	--	<1	20
JULY											
20...	--	200	200	0	--	--	--	--	--	--	20
AUG											
17...	<.010	500	400	100	1	0	1	0	--	<1	20
SEPT											
14...	--	500	300	200	--	--	--	--	--	--	30

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 8 CASTON CREEK AT WISTAR											
DATE	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM SUS- PENDE RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, SUS- PENDE RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, SUS- PENDE RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, SUS- PENDE RECOV- ERABLE (UG/L AS FE)
JULY, 1978											
17...	--	--	ND	--	--	<20	--	--	ND	--	--
AUG											
15...	--	--	ND	--	--	ND	--	--	ND	--	--
DEC											
12...	--	--	5	--	--	ND	--	--	<2	--	--
JAN, 1979											
03...	--	--	2	--	--	ND	--	--	<2	--	--
FEB											
02...	--	--	3	--	--	ND	--	--	3	--	--
MAR											
08...	--	--	<2	--	--	ND	--	--	<2	--	--
APR											
06...	--	--	3	--	--	ND	--	--	2	--	--
19...	--	--	11	--	--	ND	--	--	ND	--	--
MAY											
01...	--	--	<2	--	--	ND	--	--	<2	--	--
14...	--	--	14	--	--	<20	--	--	ND	--	--
26...	--	--	3	--	--	<20	--	--	<2	--	--
JUNE											
04...	--	--	4	--	--	ND	--	--	ND	--	--
14...	--	--	2	--	--	<20	--	--	<2	--	--
29...	--	--	<2	--	--	<20	--	--	ND	--	--
JULY											
03...	--	--	<2	--	--	<20	--	--	ND	--	--
AUG											
20...	--	--	ND	--	--	ND	--	--	<2	--	--
SEPT											
12...	--	--	<2	--	--	<20	--	--	3	--	--
25...	--	--	<2	--	--	<20	--	--	<2	--	--
OCT											
23...	--	--	<1	--	--	.00	--	--	0	--	--
NOV											
19...	--	--	3	--	--	.00	--	--	0	--	--
DEC											
18...	--	--	1	--	--	.00	--	--	2	--	--
JAN, 1980											
15...	--	--	3	--	--	.00	--	--	0	--	--

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 8 CASTON CREEK AT WISTER											
DATE	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM SUS- PENDE RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, SUS- PENDE RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, SUS- PENDE RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, SUS- PENDE RECOV- ERABLE (UG/L AS FE)
FEB, 1980											
11...	--	--	0	--	--	.00	--	--	1	--	--
MAR											
17...	--	--	0	--	--	.00	--	--	4	--	--
31...	--	--	0	--	--	.00	--	--	3	--	--
APR											
10...	--	--	1	--	--	.00	--	--	3	--	--
MAY											
08...	--	--	<1	--	--	.00	--	--	1	--	--
JUNE											
12...	--	--	1	--	--	.00	--	--	6	--	--
19...	--	--	<1	--	--	.00	--	--	5	--	--
JULY											
07...	--	--	<1	--	--	.00	--	--	2	--	--
AUG											
19...	--	--	1	--	--	.00	--	--	3	--	--
OCT											
24...	0	--	<1	10	10	.00	3	2	1	880	850
NOV											
17...	--	--	--	--	--	--	--	--	--	2300	2200
DEC											
16...1981	1	0	<1	0	0	.00	3	0	7	910	840
JAN, 1981											
22...	--	--	--	--	--	--	--	--	--	480	360
FEB											
17...	0	--	<1	0	0	.00	5	1	4	1200	1100
MAR											
16...	--	--	--	--	--	--	--	--	--	1100	980
APR											
20...	0	--	<1	10	10	.00	4	2	2	1200	960
MAY											
18...	--	--	--	--	--	--	--	--	--	1900	1600
JUNE											
23...	0	--	<1	10	10	.00	4	2	2	1400	1100
JULY											
20...	--	--	--	--	--	--	--	--	--	560	380
AUG											
17...	1	--	<1	0	0	10	5	4	1	1200	1000
SEPT											
14...	--	--	--	--	--	--	--	--	--	1300	1100

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 8 CASTON CREEK AT WISTER											
DATE	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL, RECOV- ERABLE (UG/L AS PB)	LEAD, SUS- PENDE RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, TOTAL, RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, SUS- PENDE RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL, RECOV- ERABLE (UG/L AS HG)	MERCURY SUS- PENDE RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)
JULY, 1978											
17...	40	--	--	ND	--	--	40	--	--	.3	1
AUG											
15...	30	--	--	ND	--	--	50	--	--	.2	1
DEC											
12...	--	--	--	<200	--	--	--	--	--	<.1	1
JAN, 1979											
03...	100	--	--	18	--	--	20	--	--	<.1	<1
FEB											
02...	--	--	--	15	--	--	--	--	--	<.1	<1
MAR											
08...	--	--	--	4	--	--	--	--	--	<.1	<1
APR											
06...	60	--	--	14	--	--	40	--	--	<.1	<1
19...				73	--	--	--	--	--	<.1	<10
MAY											
01...	80	--	--	9	--	--	50	--	--	.2	<1
14...	130	--	--	120	--	--	30	--	--	<.1	<1
26...	130	--	--	--	--	--	20	--	--	.2	<1
JUNE											
04...	90	--	--	22	--	--	30	--	--	.3	<1
14...	40	--	--	ND	--	--	50	--	--	<.1	<1
29...	120	--	--	ND	--	--	40	--	--	<.1	<10
JULY											
03...	130	--	--	2	--	--	40	--	--	<.1	<1
AUG											
20...	--	--	--	ND	--	--	--	--	--	<.1	<1
SEPT											
12...	70	--	--	ND	--	--	80	--	--	<.1	<1
25...	60	--	--	ND	--	--	50	--	--	<.1	<10
OCT											
23...	100	--	--	0	--	--	60	--	--	.0	<10
NOV											
19...	--	--	--	0	--	--	--	--	--	.0	0
DEC											
18...	--	--	--	0	--	--	--	--	--	.0	0
JAN, 1980											
15...	40	--	--	2	--	--	40	--	--	.0	<10

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 8 CASTON CREEK AT WISTER											
DATE	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, SUS- PENDE RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, SUS- PENDE RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY SUS- PENDE RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)
FEB, 1980											
11...	--	--	--	0	--	--	--	--	--	.0	0
MAR											
17...	--	--	--	0	--	--	--	--	--	.0	0
31...	--	--	--	0	--	--	--	--	--	.0	0
APR											
10...	120	--	--	2	--	--	50	--	--	1.0	<10
MAY											
08...	30	--	--	0	--	--	50	--	--	.1	<10
JUNE											
12...	30	--	--	5	--	--	90	--	--	.0	<10
19...	140	--	--	4	--	--	120	--	--	.0	<10
JULY											
07...	20	--	--	0	--	--	200	--	--	.7	<10
AUG											
19...	--	--	--	0	--	--	--	--	--	.1	0
OCT											
24...	30	1	0	1	160	30	130	.1	.1	.0	--
NOV											
17...	150	--	--	--	180	90	90	--	--	--	--
DEC											
16...	70	5	3	2	40	10	30	.0	.0	.0	--
JAN, 1981											
22...	120	--	--	--	70	20	50	--	--	--	--
FEB											
17...	110	2	2	0	50	30	20	.1	.0	.1	--
MAR											
16...	120	--	--	--	60	20	40	--	--	--	--
APR											
20...	240	13	13	0	150	60	90	.1	.1	.0	--
MAY											
18...	270	--	--	--	90	50	40	--	--	--	--
JUNE											
23...	350	10	9	1	110	40	70	.1	.1	.0	--
JULY											
20...	180	--	--	--	100	60	40	--	--	--	--
AUG											
17...	200	4	0	6	240	100	140	.0	.0	.0	--
SEPT											
14...	230	--	--	--	270	90	180	--	--	--	--

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 8 CASTON CREEK AT WISTER										
DATE	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, SUS- PENDE RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	ZINC, TOTAL, RECOV- ERABLE (UG/L AS ZN)	ZINC, SUS- PENDE RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDE TOTAL (MG/L AS C)
JULY, 1978										
17...	--	--	--	--	--	--	--	ND	--	--
AUG										
15...	--	--	--	--	--	--	--	<20	--	.80
DEC										
12...	--	--	--	--	--	--	--	--	--	--
JAN, 1979										
03...	--	--	--	--	--	--	--	ND	6.3	.90
FEB										
02...	--	--	--	--	--	--	--	--	--	--
MAR										
08...	--	--	--	--	--	--	--	--	--	--
APR										
06...	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	<3	--	--
MAY										
01...	--	--	--	--	--	--	--	ND	--	--
14...	--	--	--	--	--	--	--	<20	3.7	.70
26...	--	--	--	--	--	--	--	ND	6.2	--
JUNE										
04...	--	--	--	--	--	--	--	ND	5.0	1.0
14...	--	--	--	--	--	--	--	<20	3.1	.90
29...	--	--	--	--	--	--	--	5	3.3	1.1
JULY										
03...	--	--	--	--	--	--	--	ND	5.1	.70
AUG										
20...	--	--	--	--	--	--	--	--	--	--
SEPT										
12...	--	--	--	--	--	--	--	<20	12	.30
25...	--	--	--	--	--	--	--	<3	3.9	1.0
OCT										
23...	--	--	--	--	--	--	--	5	3.9	.30
NOV										
19...	--	--	--	--	--	--	--	--	--	--
DEC										
18...	--	--	--	--	--	--	--	--	--	--
JAN, 1980										
15...	--	--	--	--	--	--	--	5	2.6	.40

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 8 CASTON CREEK AT WISTER										
DATE	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, SUS- PENDE RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, SUS- PENDE RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDE TOTAL (MG/L AS C)
FEB, 1980										
FEB 11...	--	--	--	--	--	--	--	--	--	--
MAR 17...	--	--	--	--	--	--	--	--	--	--
MAR 31...	--	--	--	--	--	--	--	--	--	--
APR 10...	--	--	--	--	--	--	--	8	3.8	.40
MAY 08...	--	--	--	--	--	--	--	8	4.1	.90
JUNE 12...	--	--	--	--	--	--	--	10	4.1	1.3
JUNE 19...	--	--	--	--	--	--	--	<3	10	1.7
JULY 07...	--	--	--	--	--	--	--	20	6.5	1.1
AUG 19...	--	--	--	--	--	--	--	--	--	--
OCT 24...	3	3	0	0	0	20	20	3	8.2	.90
NOV 17...	--	--	--	--	--	--	--	--	--	--
DEC 16...	3	3	0	0	1	30	30	5	8.1	.80
JAN, 1981										
JAN 22...	--	--	--	--	--	--	--	--	--	--
FEB 17...	2	0	4	0	0	130	120	7	3.2	1.2
MAR 16...	--	--	--	--	--	--	--	--	--	--
APR 20...	6	5	1	0	0	30	10	20	3.2	1.8
MAY 18...	--	--	--	--	--	--	--	--	--	--
JUNE 23...	5	3	2	0	0	0	0	7	5.8	1.1
JULY 20...	--	--	--	--	--	--	--	--	--	--
AUG 17...	2	0	2	0	0	60	50	6	4.2	1.3
SEPT 14...	--	--	--	--	--	--	--	--	--	--

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 9 MORRIS CREEK AT HOWE											
DATE	TIME	NITRO- GEN DIS- SOLVED (MG/L AS N)	HARD- NESS (MG/L AS CACO3)	HARD- NESS NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	SULFATE DIS- SOLVED (MG/L AS SO4)
DEC, 1978											
12...	1000	--	--	--	--	--	--	--	--	--	--
JAN, 1979											
10...	1225	--	17	11	2.9	2.4	5.4	39	.6	1.1	6.6
FEB											
02...	1130	--	--	--	--	--	--	--	--	--	--
MAR											
01...	1205	--	--	--	--	--	--	--	--	--	--
APR											
03...	1200	--	10	1	1.7	1.4	3.0	37	.4	.80	3.8
03...	1243	--	--	--	--	--	--	--	--	--	--
11...	1156	--	13	2	2.6	1.7	4.0	37	.5	1.2	8.5
19...	1320	--	--	--	--	--	--	--	--	--	--
MAY											
01...	1115	--	15	2	3.2	1.6	3.9	35	.5	1.1	6.9
14...	1235	--	18	6	3.5	2.2	3.8	30	.4	1.0	7.6
26...	1300	--	10	0	1.6	1.5	3.5	39	.5	1.3	5.2
JUNE											
04...	1132	--	11	0	2.0	1.5	3.6	38	.5	1.4	6.5
14...	1020	--	13	0	2.1	2.0	4.0	37	.5	1.2	9.8
29...	1240	--	18	0	3.1	2.6	6.3	40	.7	1.4	10
JULY											
03...	0947	--	22	0	4.1	2.8	6.0	35	.6	1.6	8.3
AUG											
02...	1200	--	--	--	--	--	--	--	--	--	--
SEPT											
12...	1010	--	18	0	3.3	2.3	5.5	37	.6	1.8	8.6
25...	1040	--	18	0	3.2	2.5	5.9	38	.6	1.8	5.3
OCT											
23...	1150	--	31	0	6.0	3.9	6.9	30	.6	2.8	10
NOV											
13...	1525	--	--	--	--	--	--	--	--	--	--
DEC											
18...	1025	--	--	--	--	--	--	--	--	--	--
FEB, 1980											
11...	1040	--	--	--	--	--	--	--	--	--	--
MAR											
17...	1010	--	--	--	--	--	--	--	--	--	--

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 9 MORRIS CREEK AT HOWE											
DATE	TIME	NITRO- GEN DIS- SOLVED (MG/L AS N)	HARD- NESS (MG/L AS CAC03)	HARD- NESS NONCAR- BONATE (MG/L CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	SULFATE DIS- SOLVED (MG/L AS SO4)
APR, 1980											
10...	1200	--	13	2	2.1	1.8	4.7	42	.6	1.0	9.2
MAY											
01...	1230	--	18	0	3.5	2.2	5.9	39	.6	2.0	9.2
JUNE											
05...	0955	--	16	0	2.6	2.3	5.0	38	.6	1.3	4.3
OCT											
21...	1855	1.0	16	3	3.1	2.1	5.8	40	.6	2.0	12
NOV											
21...	1535	--	17	3	2.9	2.3	6.1	42	.7	1.5	8.1
DEC											
10...	1547	2.5	12	5	2.1	1.6	4.3	41	.6	1.1	6.9
JAN, 1981											
20...	1637	--	17	5	3.0	2.2	6.4	44	.7	1.0	9.3
FEB											
18...	1330	.97	12	2	2.0	1.6	5.0	46	.7	.90	9.3
MAR											
17...	1245	--	18	6	3.9	1.9	6.2	40	.7	1.8	7.8
APR											
22...	1245	.56	22	3	4.8	2.3	5.8	35	.6	1.6	8.1
MAY											
18...	1510	--	13	2	2.4	1.6	4.3	40	.5	1.1	4.1
21...	1830	--	13	--	2.3	1.7	4.4	40	.5	1.3	7.7
JUNE											
22...	1600	.72	16	0	2.8	2.1	5.1	40	.6	1.0	<5.0
JULY											
20...	1715	--	22	3	4.6	2.6	6.4	35	.6	2.9	<5.0
AUG											
17...	1615	.25	20	0	3.6	2.6	5.5	35	.6	1.8	<5.0
SEPT											
14...	1500	--	19	0	3.3	2.6	5.8	37	.6	1.9	6.0
OCT											
21...	1900	--	13	--	2.5	1.7	3.7	35	.5	1.1	8.0

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 9 MORRIS CREEK AT HOWE											
DATE	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SI02)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N03)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N02)
DEC, 1978											
12...	--	--	--	--	--	--	--	--	--	--	--
JAN, 1979											
10...	5.5	<.10	8.3	46	44	.06	--	1.8	8.0	<.010	.00
FEB											
02...	--	--	--	--	--	--	--	--	--	--	--
MAR											
01...	--	--	--	--	--	--	--	--	--	--	--
APR											
03...	2.4	<.10	11	31	31	.04	--	.30	1.3	.010	.03
03...	--	--	--	--	--	--	--	--	--	--	--
11...	3.2	.10	8.2	36	38	.05	--	.23	1.0	<.010	.00
19...	--	--	--	--	--	--	--	--	--	--	--
MAY											
01...	3.4	.10	9.1	37	38	.05	1.6	.16	.71	.010	.03
14...	2.8	.10	9.4	33	39	.04	--	.16	.71	<.010	.00
26...	2.4	.10	10	31	34	.04	--	.26	1.2	.010	.03
JUNE											
04...	2.7	.10	9.8	45	36	.06	--	.13	.58	.010	.03
14...	2.9	.10	10	39	42	.05	1.3	.13	.58	.010	.03
29...	4.4	.10	12	46	52	.06	.17	.01	.04	<.010	.00
JULY											
03...	4.5	.10	9.7	46	51	.06	--	.00	.00	<.010	.00
AUG											
02...	--	--	--	--	--	--	--	--	--	--	--
SEPT											
12...	3.5	.10	12	36	51	.05	--	.03	.13	.010	.03
25...	3.8	.10	9.2	56	45	.08	--	.03	.13	.010	.03
OCT											
23...	5.2	.10	10	61	67	.08	--	.00	.00	.010	.03
NOV											
13...	--	--	--	--	--	--	--	--	--	--	--
DEC											
18...	--	--	--	--	--	--	--	--	--	--	--
FEB, 1980											
11...	--	--	--	--	--	--	--	--	--	--	--
MAR											
17...	--	--	--	--	--	--	--	--	--	--	--

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 9 MORRIS CREEK AT HOWE											
DATE	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SI02)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS NO3)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS NO2)
APR, 1980											
10...	4.1	.00	9.6	39	39	.05	.87	.00	.00	.000	.00
MAY											
01...	3.9	.10	7.2	54	45	.07	11	.10	.44	.020	.07
JUNE											
05...	3.9	.00	11	36	42	.05	.34	.03	.13	.010	.03
OCT											
21...	6.0	.20	11	63	50	.09	.12	--	--	--	--
NOV											
21...	7.1	.10	9.8	50	46	.07	.35	--	--	--	--
DEC											
10...	3.5	.10	10	46	34	.06	2.6	--	--	--	--
JAN, 1981											
20...	5.9	.10	7.6	45	43	.06	.11	--	--	--	--
FEB											
18...	4.0	.10	8.7	36	38	.05	1.2	--	--	--	--
MAR											
17...	5.0	.00	7.9	44	42	.06	.99	--	--	--	--
APR											
22...	4.6	.10	9.3	58	48	.08	.38	--	--	--	--
MAY											
18...	2.8	--	10	32	33	.04	2.1	--	--	--	--
21...	3.5	.10	10	--	--	.11	--	--	--	--	--
JUNE											
22...	3.7	.00	12	44	41	.06	.50	--	--	--	--
JULY											
20...	5.6	.50	13	55	48	.07	.13	--	--	--	--
AUG											
17...	4.0	.00	13	47	--	.06	.27	--	--	--	--
SEPT											
14...	5.3	.10	11	48	48	.07	.30	--	--	--	--
OCT											
21...	3.4	.10	12	44	--	.06	--	--	--	--	--

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 9 MORRIS CREEK AT HOWE										
DATE	NITRO- GEN. NO2+N03 DIS- SOLVED (MG/L AS N)	NITRO- GEN. AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN. AMMONIA DIS- SOLVED (MG/L AS NH4)	NITRO- GEN. ORGANIC TOTAL (MG/L AS N)	NITRO- GEN. AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN. NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO- GEN. AM- MONIA + ORGANIC DIS. (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHATE, TOTAL (MG/L AS P04)	PHOS- PHORUS TOTAL (MG/L AS P04)
DEC, 1978										
12...	--	--	--	--	--	--	--	--	--	--
JAN, 1979										
10...	1.8	<.010	.00	--	--	--	--	.020	.06	--
FEB										
02...	--	--	--	--	--	--	--	--	--	--
MAR										
01...	--	--	--	--	--	--	--	--	--	--
APR										
03...	.31	.030	.04	--	--	--	--	.030	.09	.09
03...	--	--	--	--	--	--	--	--	--	.09
11...	.23	.030	.04	--	--	--	--	.030	.09	.09
19...	--	--	--	--	--	--	--	--	--	--
MAY										
01...	.17	.010	.01	--	--	--	--	.020	.06	.06
14...	.16	.010	.01	--	--	--	--	.010	.03	.03
26...	.27	<.010	.00	--	--	--	--	.020	--	.06
JUNE										
04...	.14	<.010	.00	--	--	--	--	.030	.09	.09
14...	.14	<.010	.00	--	--	--	--	.040	.12	.12
29...	.01	.090	.12	--	--	--	--	.030	--	.09
JULY										
03...	<.10	<.010	.00	--	--	--	--	.010	.03	.03
AUG										
02...	--	--	--	--	--	--	--	--	--	--
SEPT										
12...	.04	.010	.01	--	--	--	--	.040	--	.12
25...	.04	<.010	.00	--	--	--	--	.030	--	.09
OCT										
23...	.00	.030	.04	--	--	--	--	.030	--	.09
NOV										
13...	--	--	--	--	--	--	--	--	--	--
DEC										
18...	--	--	--	--	--	--	--	--	--	--
FEB, 1980										
11...	--	--	--	--	--	--	--	--	--	--
MAR										
17...	--	--	--	--	--	--	--	--	--	--

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 9 MORRIS CREEK AT HOWE										
DATE	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHATE, TOTAL (MG/L AS PO4)	PHOS- PHORUS TOTAL (MG/L AS PO4)
APR, 1980										
10...	.00	.000	.00	--	--	--	--	.050	--	.15
MAY										
01...	.12	.170	.22	--	--	--	--	.170	--	.52
JUNE										
05...	.04	.060	.08	--	--	--	--	.030	--	.09
OCT										
21...	.56	--	--	.80	.88	.41	.47	.060	--	.18
NOV										
21...	--	--	--	--	--	--	--	--	--	--
DEC										
10...	1.1	.050	--	.73	.78	.00	1.4	.030	--	.09
JAN, 1981										
20...	--	--	--	--	--	--	--	--	--	--
FEB										
18...	.56	.050	--	.52	.57	.16	.41	.070	--	.21
MAR										
17...	--	--	--	--	--	--	--	--	--	--
APR										
22...	.10	.100	--	.57	.67	.21	.46	.050	--	.15
MAY										
18...	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--
JUNE										
22...	.10	.090	--	.72	.81	.19	.62	.020	--	.06
JULY										
20...	--	--	--	--	--	--	--	--	--	--
AUG										
17...	.02	.120	--	.54	.66	.43	.23	.020	--	.06
SEPT										
14...	--	--	--	--	--	--	--	--	--	--
OCT										
21...	--	--	--	--	--	--	--	--	--	--

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 9 MORRIS CREEK AT HOWE											
DATE	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	ALUM- INUM, TOTAL RECOV- ERABLE (UG/L AS AL)	ALUM- INUM, SUS- PENDE RECOV. (UG/L AS AL)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUS- PENDE TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	BERYL- LIUM, SUS- PENDE RECOV. (UG/L AS BE)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	BORON, DIS- SOLVED (UG/L AS B)
DEC, 1978											
12...	--	--	--	20	--	--	<1	--	--	--	--
JAN, 1979											0
10...	--	--	--	40	--	--	<1	--	--	--	
FEB											
02...	--	--	--	30	--	--	<1	--	--	--	--
MAR											
01...	--	--	--	70	--	--	<1	--	--	--	--
APR											
03...	--	--	--	40	--	--	<1	--	--	--	<20
03...	--	--	--	10	--	--	<1	--	--	--	40
11...	--	--	--	40	--	--	<1	--	--	--	--
19...	--	--	--		--	--		--	--	--	--
MAY											
01...	--	--	--	50	--	--	<1	--	--	--	<20
14...	--	--	--	30	--	--	<1	--	--	--	<20
26...	--	--	--	30	--	--	<1	--	--	--	<20
JUNE											
04...	--	--	--	20	--	--	<1	--	--	--	<20
14...	--	--	--	50	--	--	1	--	--	--	0
29...	--	--	--	10	--	--	1	--	--	--	<20
JULY											
03...	--	--	--	20	--	--	1	--	--	--	<20
AUG											
02...	--	--	--	<100	--	--	1	--	--	--	--
SEPT											
12...	--	--	--	20	--	--	1	--	--	--	30
25...	--	--	--	10	--	--	1	--	--	--	30
OCT											
23...	--	--	--	0	--	--	0	--	--	--	40
NOV											
13...	--	--	--	40	--	--	1	--	--	--	--
DEC											
18...	--	--	--	130	--	--	1	--	--	--	--
FEB, 1980											
11...	--	--	--	240	--	--	0	--	--	--	--
MAR											
17...	--	--	--	20	--	--	0	--	--	--	--

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 9 MORRIS CREEK AT HOWE											
DATE	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	ALUM- INUM, TOTAL RECOV- ERABLE (UG/L AS AL)	ALUM- INUM, SUS- PENDE RECOV. (UG/L AS AL)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUS- PENDE TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	BERYL- LIUM, SUS- PENDE RECOV. (UG/L AS BE)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	BORON, DIS- SOLVED (UG/L AS B)
APR, 1980											
10...	--	--	--	30	--	--	0	--	--	--	20
MAY											
01...	--	--	--	50	--	--	1	--	--	--	40
JUNE											
05...	--	--	--	20	--	--	1	--	--	--	0
OCT											
21...	.010	--	--	--	1	0	1	0	--	<1	40
NOV											
21...	--	--	--	--	--	--	--	--	--	--	0
DEC											
10...	.020	--	--	--	0	0	1	0	--	<1	20
JAN, 1981											
20...	--	--	--	--	--	--	--	--	--	--	0
FEB											
18...	.020	--	--	--	1	1	0	0	--	<1	0
MAR											
17...	--	670	470	200	--	--	--	--	--	--	0
APR											
22...	.010	300	300	0	0	0	0	0	--	<1	10
MAY											
18...	--	1800	1800	0	--	--	--	--	--	--	160
21...	--	--	--	--	--	--	--	--	--	--	160
JUNE											
22...	.010	1000	900	100	1	1	0	0	--	<1	170
JULY											
20...	--	500	400	100	--	--	--	--	--	--	20
AUG											
17...	.010	700	200	500	1	0	1	0	--	<1	30
SEPT											
14...	--	1000	900	100	--	--	--	--	--	--	30
OCT											
21...	--	--	--	--	--	--	--	--	--	--	20

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 9 MORRIS CREEK AT HOWE											
DATE	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM SUS- PENDE RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, SUS- PENDE RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, SUS- PENDE RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, SUS- PENDE RECOV- ERABLE (UG/L AS FE)
DEC, 1978	--	--	11	--	--	ND	--	--	4	--	--
JAN, 1979	--	--	7	--	--	ND	--	--	<2	--	--
FEB 10...	--	--	2	--	--	ND	--	--	<2	--	--
MAR 02...	--	--	4	--	--	<20	--	--	ND	--	--
MAR 01...	--	--	6	--	--	ND	--	--	2	--	--
APR 03...	--	--	<2	--	--	ND	--	--	<2	--	--
APR 03...	--	--	2	--	--	<20	--	--	ND	--	--
APR 11...	--	--	5	--	--	ND	--	--	<2	--	--
APR 19...	--	--	3	--	--	ND	--	--	ND	--	--
MAY 01...	--	--	4	--	--	ND	--	--	ND	--	--
MAY 14...	--	--	2	--	--	ND	--	--	2	--	--
MAY 26...	--	--	<2	--	--	ND	--	--	<2	--	--
JUNE 04...	--	--	2	--	--	ND	--	--	2	--	--
JUNE 14...	--	--	<2	--	--	20	--	--	<2	--	--
JUNE 29...	--	--	<2	--	--	<20	--	--	<2	--	--
JULY 03...	--	--	<2	--	--	ND	--	--	ND	--	--
AUG 02...	--	--	<2	--	--	ND	--	--	2	--	--
SEPT 12...	--	--	<2	--	--	<20	--	--	<2	--	--
SEPT 25...	--	--	<1	--	--	<20	--	--	<2	--	--
OCT 23...	--	--	1	--	--	.00	--	--	0	--	--
NOV 13...	--	--	1	--	--	.00	--	--	0	--	--
DEC 18...	--	--	1	--	--	.00	--	--	0	--	--
FEB, 1980	--	--	0	--	--	.00	--	--	6	--	--
FEB 11...	--	--	0	--	--	.00	--	--	3	--	--
MAR 17...	--	--	0	--	--	.00	--	--	--	--	--

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 9 MORRIS CREEK AT HOWE											
DATE	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM SUS- PENDE D RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, SUS- PENDE D RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, SUS- PENDE D RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, SUS- PENDE D RECOV- ERABLE (UG/L AS FE)
APR, 1980											
10...	--	--	<1	--	--	.00	--	--	0	--	--
MAY											
01...	--	--	<1	--	--	.00	--	--	3	--	--
JUNE											
05...	--	--	<1	--	--	.00	--	--	5	--	--
OCT											
21...	2	0	2	10	10	.00	5	3	2	1400	1300
NOV											
21...	--	--	--	--	--	--	--	--	--	430	270
DEC											
10...	0	--	<1	10	10	.00	3	0	4	1100	1100
JAN, 1981											
20...	--	--	--	--	--	--	--	--	--	620	420
FEB											
18...	0	--	<1	10	10	.00	5	3	2	1100	1100
MAR											
17...	--	--	--	--	--	--	--	--	--	1200	1100
APR											
22...	0	--	<1	20	10	10	4	1	3	1000	690
MAY											
18...	--	--	--	--	--	--	--	--	--	1400	1300
21...	--	--	--	--	--	--	--	--	--	1200	1000
JUNE											
22...	0	--	<1	10	10	.00	4	3	1	1100	1000
JULY											
20...	--	--	--	--	--	--	--	--	--	1200	1000
AUG											
17...	1	0	2	0	0	.00	5	4	1	1200	940
SEPT											
14...	--	--	--	--	--	--	--	--	--	1600	1500
OCT											
21...	--	--	--	--	--	--	--	--	--	1400	1300

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 9 MORRIS CREEK AT HOWE											
DATE	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL, RECOV- ERABLE (UG/L AS PB)	LEAD, SUS- PENDE RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, TOTAL, RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, SUS- PENDE RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL, RECOV- ERABLE (UG/L AS HG)	MERCURY SUS- PENDE RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)
DEC, 1978											
12...1979	--	--	--	60	--	--	--	--	--	<.1	<1
JAN, 1979	80	--	--	13	--	--	20	--	--	<.1	<1
FEB 10...	--	--	--	25	--	--	--	--	--	<.1	<1
MAR 02...	--	--	--	52	--	--	--	--	--	<.1	<1
MAR 01...	--	--	--		--	--	--	--	--	<.1	<1
APR 03...	110	--	--	46	--	--	20	--	--	<.1	<10
03...03...	--	--	--	2	--	--	50	--	--	<.1	--
11...19...	90	--	--	ND	--	--	--	--	--	<.1	<10
19...	--	--	--		--	--	--	--	--	<.1	<1
MAY 01...	80	--	--	50	--	--	40	--	--	<.1	<1
14...	110	--	--	9	--	--	20	--	--	<.1	<1
26...	170	--	--	<200	--	--	20	--	--	<.1	<1
JUNE 04...	40	--	--	3	--	--	20	--	--	.2	<1
14...	120	--	--	ND	--	--	40	--	--	<.1	<1
29...	80	--	--	ND	--	--	40	--	--	<.1	<10
JULY 03...	100	--	--	2	--	--	<10	--	--	<.1	<1
AUG 02...	--	--	--	ND	--	--	--	--	--	<.1	1
SEPT 12...	50	--	--	ND	--	--	60	--	--	<.1	<10
25...	90	--	--	ND	--	--	30	--	--	<.1	<10
OCT 23...	110	--	--	0	--	--	90	--	--	.0	<10
NOV 13...	--	--	--	0	--	--	--	--	--	.0	0
DEC 18...	--	--	--	0	--	--	--	--	--	.0	0
FEB, 1980	--	--	--	0	--	--	--	--	--	.0	0
11...	--	--	--	0	--	--	--	--	--	.0	0
MAR 17...	--	--	--	0	--	--	--	--	--	1.0	0

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 9 MORRIS CREEK AT HOWE										
DATE	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL, RECOV- ERABLE (UG/L AS PB)	LEAD, SUS- PENDE RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, TOTAL, RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, SUS- PENDE RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY SUS- PENDE RECOV- ERABLE (UG/L AS HG)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)
APR, 1980										
10...	10	--	--	1	--	--	30	--	--	<10
MAY										
01...	220	--	--	3	--	--	100	--	--	<10
JUNE										
05...	10	--	--	2	--	--	40	--	--	<10
OCT										
21...	120	0	0	0	40	20	20	.1	.1	.0
NOV										
21...	160	--	--	--	20	10	10	--	--	--
DEC										
10...	50	3	3	0	20	10	10	.0	.0	--
JAN, 1981										
20...	200	--	--	--	60	10	50	--	--	--
FEB										
18...	30	3	3	0	30	10	20	.2	.2	.0
MAR										
17...	120	--	--	--	50	10	40	--	--	--
APR										
22...	310	0	0	2	110	40	70	.3	.3	.0
MAY										
18...	60	--	--	--	50	20	30	--	--	--
21...	190	--	--	--	40	10	30	--	--	--
JUNE										
22...	100	7	6	1	50	10	40	.1	.1	.0
JULY										
20...	180	--	--	--	100	50	47	--	--	--
AUG										
17...	260	6	2	4	110	30	80	.1	.1	.0
SEPT										
14...	93	--	--	--	80	50	30	--	--	--
OCT										
21...	150	--	--	--	40	10	26	--	--	--

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 9 MORRIS CREEK AT HOWE										
DATE	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, SUS- PENDE RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, SUS- PENDE RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDE TOTAL (MG/L AS C)
DEC, 1978										
JAN, 1979	--	--	--	--	--	--	--	--	--	--
FEB 10...	--	--	--	--	--	--	--	ND	1.6	.30
MAR 02...	--	--	--	--	--	--	--	--	--	--
APR 01...	--	--	--	--	--	--	--	--	--	--
MAY 03...	--	--	--	--	--	--	--	3	--	--
JUN 03...	--	--	--	--	--	--	--	5	--	--
JUL 11...	--	--	--	--	--	--	--	--	--	--
AUG 19...	--	--	--	--	--	--	--	--	--	--
SEP 01...	--	--	--	--	--	--	--	ND	2.6	.50
OCT 14...	--	--	--	--	--	--	--	<20	2.4	--
NOV 26...	--	--	--	--	--	--	--	ND	--	--
DEC 04...	--	--	--	--	--	--	--	<20	2.3	.70
JAN 14...	--	--	--	--	--	--	--	ND	1.4	.60
FEB 29...	--	--	--	--	--	--	--	<3	2.0	.70
MAR 03...	--	--	--	--	--	--	--	ND	.40	.60
APR 02...	--	--	--	--	--	--	--	--	--	--
MAY 12...	--	--	--	--	--	--	--	6	3.0	.50
JUN 25...	--	--	--	--	--	--	--	<3	3.3	.90
JUL 23...	--	--	--	--	--	--	--	3	3.9	.30
AUG 13...	--	--	--	--	--	--	--	--	--	--
SEP 13...	--	--	--	--	--	--	--	--	--	--
OCT 18...	--	--	--	--	--	--	--	--	--	--
NOV 11...	--	--	--	--	--	--	--	--	--	--
DEC 17...	--	--	--	--	--	--	--	--	--	--

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 9 MORRIS CREEK AT HOWE										
DATE	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, SUS- PENDE RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, SUS- PENDE RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDE TOTAL (MG/L AS C)
APR, 1980										
10....	--	--	--	--	--	--	--	4	1.4	.30
MAY 01....	--	--	--	--	--	--	--	20	11	3.2
JUNE 05....	--	--	--	--	--	--	--	6	3.0	.40
OCT 21....	2	2	0	0	0	20	10	7	--	--
NOV 21....	--	--	--	--	--	--	--	--	--	--
DEC 10....	2	1	1	0	0	10	0	7	5.6	.70
JAN, 1981										
20....	--	--	--	--	--	--	--	--	--	--
FEB 18....	2	0	4	0	0	10	--	<3	1.6	.70
MAR 17....	--	--	--	--	--	--	--	--	--	--
APR 22....	4	2	2	0	0	20	0	20	2.4	.50
MAY 18....	--	--	--	--	--	--	--	--	--	--
21....	--	--	--	--	--	--	--	--	--	--
JUNE 22....	3	0	4	0	0	30	30	5	4.7	.80
JULY 20....	--	--	--	--	--	--	--	--	--	--
AUG 17....	2	1	1	0	0	10	0	13	4.4	.70
SEPT 14....	--	--	--	--	--	--	--	--	--	--
OCT 21....	--	--	--	--	--	--	--	--	--	--

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 10 SUGARLOAF CREEK NEAR MONROE											
DATE	TIME	NITRO- GEN DIS- SOLVED (MG/L AS N)	HARD- NESS (MG/L AS CAC03)	HARD- NESS NONCAR- BONATE (MG/L CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	SULFATE DIS- SOLVED (MG/L AS SO4)
DEC, 1978	0830	--	--	--	--	--	--	--	--	--	--
JAN, 1979	1009	--	16	9	2.6	2.3	4.8	37	.5	1.2	6.9
FEB	1510	--	--	--	--	--	--	--	--	--	--
MAR	0900	--	--	--	--	--	--	--	--	--	--
APR	1007	--	10	1	1.9	1.3	3.0	37	.4	.90	2.7
03...	0934	--	--	--	--	--	--	--	--	--	--
11...	1105	--	12	2	2.2	1.7	3.9	38	.5	1.2	8.5
19...											
MAY	0900	--	14	0	2.5	1.8	3.7	35	.4	1.2	8.2
01...	1345	--	14	1	2.8	1.8	3.5	32	.4	1.2	10
03...	1502	--	13	0	2.7	1.5	3.6	36	.4	1.0	8.6
14...											
JUNE	0948	--	12	0	2.0	1.6	3.1	34	.4	1.2	6.1
04...	0830	--	18	3	2.0	--	3.6	28	.4	1.2	7.1
14...	0940	--	17	0	3.0	2.3	5.0	37	.5	1.4	9.1
29...											
JULY	0815	--	14	0	3.3	--	4.9	40	.6	1.4	8.6
03...											
AUG	1000	--	--	--	--	--	--	--	--	--	--
02...											
SEPT	0835	--	16	0	3.1	2.1	4.3	34	.5	1.7	7.4
12...	0850	--	18	0	3.3	2.4	4.6	33	.5	1.6	4.2
25...											
OCT	1405	--	24	0	4.4	3.2	5.2	29	.5	2.6	9.5
23...											
NOV	0855	--	--	--	--	--	--	--	--	--	--
19...											
DEC	0855	--	--	--	--	--	--	--	--	--	--
18...											
JAN, 1980	0930	--	15	0	2.4	2.2	4.9	39	.6	1.4	12
15...											
FEB	0950	--	--	--	--	--	--	--	--	--	--
11...											

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 10 SUGARLOAF CREEK NEAR MONROE											
DATE	TIME	NITRO- GEN DIS- SOLVED (MG/L AS N)	HARD- NESS (MG/L AS CAC03)	HARD- NESS NONCAR- BONATE (MG/L CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	SULFATE DIS- SOLVED (MG/L AS SO4)
MAR, 1980	0840	--	--	--	--	--	--	--	--	--	--
APR 17...	0935	--	15	4	2.5	2.1	4.5	38	.5	1.1	8.8
MAY 10...	0908	--	16	1	2.9	2.2	5.2	38	.6	1.6	8.0
JUNE 01...	0835	--	18	0	3.1	2.4	4.8	35	.5	1.4	6.5
JULY 05...	1210	--	27	0	5.0	3.5	5.8	31	.5	1.2	4.7
JULY 07...	1615	--	19	5	3.3	2.5	4.4	31	.5	1.8	3.6
NOV 19...	1457	3.3	17	8	2.8	2.4	4.6	35	.5	1.3	7.0
DEC 11...	1156	--	19	4	3.9	2.2	5.7	38	.6	1.0	8.6
JAN, 1981	1100	2.2	17	11	2.9	2.4	4.9	37	.5	1.1	12
FEB 18...	1505	--	15	6	2.7	2.1	5.3	40	.6	1.6	7.7
MAR 16...	1120	.83	21	3	4.9	2.2	5.7	35	.6	1.5	8.9
APR 22...	1235	--	17	3	3.3	2.1	4.6	35	.5	1.3	9.5
MAY 20...	1330	.99	19	2	4.0	2.3	4.8	33	.5	1.5	.6
JUNE 24...	1120	--	19	0	3.4	2.6	4.7	33	.5	1.5	2.0
JULY 21...	1405	.47	18	0	3.2	2.4	4.2	31	.4	1.6	<5.0
AUG 18...	1300	--	18	0	3.1	2.4	4.3	31	.5	2.5	5.0
SEPT 15...											

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 10 SUGARLOAF CREEK NEAR MONROE											
DATE	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SI02)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N03)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N02)
DEC, 1978											
12...	--	--	--	--	--	--	--	--	--	--	--
JAN, 1979											
10...	5.2	<.10	8.1	44	41	.06	1.3	1.2	5.3	<.010	.00
FEB											
15...	--	--	--	--	--	--	--	--	--	--	--
MAR											
01...	--	--	--	--	--	--	--	--	--	--	--
APR											
03...	2.2	<.10	10	29	29	.04	18	.29	1.3	.010	.03
11...	3.1	.10	9.4	37	38	.05	4.4	.21	.93	.010	.03
19...											
MAY											
01...	3.0	.10	7.8	37	38	.05	3.7	.20	.89	.010	.03
03...	3.2	.10	8.0	36	39	.05	15	.14	.62	.010	.03
14...	2.6	.10	8.6	33	37	.04	7.2	.20	.89	<.010	.00
JUNE											
04...	2.0	.10	9.2	37	33	.05	18	.11	.49	.010	.03
14...	2.5	.20	8.8	38	38	.05	3.0	.13	.58	.010	.03
29...	2.9	.10	11	46	46	.06	.65	.09	.40	<.010	.00
JULY											
03...	3.1	.10	9.1	42	45	.06	.24	.05	.22	<.010	.00
AUG											
02...	--	--	--	--	--	--	--	--	--	--	--
SEPT											
12...	2.3	.10	10	--	45	.06	.44	.04	.18	.010	.03
25...	2.9	.10	9.9	53	42	.07	.26	.07	.31	.010	.03
OCT											
23...	3.8	.10	9.2	51	55	.07	.50	.00	.00	.010	.03
NOV											
19...	--	--	--	--	--	--	--	--	--	--	--
DEC											
18...	--	--	--	--	--	--	--	--	--	--	--
JAN, 1980											
15...	5.6	.10	7.4	34	50	.05	1.2	.80	3.5	.010	.03
FEB											
11...	--	--	--	--	--	--	--	--	--	--	--

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 10 SUGARLOAF CREEK NEAR MONROE											
DATE	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SI02)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS NO3)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS NO2)
MAR, 1980											
17...	--	--	--	--	--	--	--	--	--	--	--
APR											
10...	3.5	.00	8.4	38	39	.05	1.9	.17	.75	.000	.00
MAY											
01...	3.8	.10	6.7	44	40	.06	16	.08	.35	.000	.00
JUNE											
05...	3.0	.10	9.3	38	42	.05	.82	.09	.40	.010	.03
JULY											
07...	2.6	.10	9.1	54	52	.07	.01	.00	.00	.000	.00
NOV											
19...	5.6	.20	9.2	49	39	.07	.59	--	--	--	--
DEC											
11...	3.9	.10	9.5	59	37	.08	4.9	--	--	--	--
JAN, 1981											
21...	4.9	.10	6.7	46	42	.06	.25	--	--	--	--
FEB											
18...	4.5	.00	9.0	52	41	.07	3.1	--	--	--	--
MAR											
16...	4.3	.10	7.2	44	37	.06	3.3	--	--	--	--
APR											
22...	3.8	.10	7.8	61	46	.08	1.2	--	--	--	--
MAY											
20...	2.7	--	9.8	43	42	.06	3.9	--	--	--	--
JUNE											
24...	--	.00	11	44	--	.06	.99	--	--	--	--
JULY											
21...	2.9	.30	12	51	42	.07	.65	--	--	--	--
AUG											
18...	2.7	.00	12	46	--	.06	.91	--	--	--	--
SEPT											
15...	3.8	.10	9.4	47	41	.06	1.6	--	--	--	--

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 10 SUGARLOAF CREEK NEAR MONROE											
DATE	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHATE, TOTAL, (MG/L AS PO4)	PHOS- PHORUS TOTAL (MG/L AS PO4)	
DEC, 1978											
12...	--	--	--	--	--	--	--	--	--	--	
JAN, 1979											
10...	1.2	<.010	.00	--	--	--	--	.020	.06	--	
FEB											
15...	--	--	--	--	--	--	--	--	--	--	
MAR											
01...	--	--	--	--	--	--	--	--	--	--	
APR											
03...	.30	.010	.01	--	--	--	--	.040	.12	--	
11...	--	--	.01	--	--	--	--	--	--	--	
19...	.22	.010	.01	--	--	--	--	.010	.03	.03	
MAY											
01...	.21	.010	.01	--	--	--	--	.030	.09	.09	
03...	.15	.010	.01	--	--	--	--	.050	.15	.15	
14...	.20	<.010	.00	--	--	--	--	.020	.06	.06	
JUNE											
04...	.12	.030	.04	--	--	--	--	.020	.06	.06	
14...	.14	<.010	.00	--	--	--	--	.030	.09	.09	
29...	.09	<.010	.00	--	--	--	--	.090	--	.28	
JULY											
03...	.05	<.010	.00	--	--	--	--	.010	.03	.03	
AUG											
02...	--	--	--	--	--	--	--	--	--	--	
SEPT											
12...	.05	<.010	.00	--	--	--	--	.020	--	.06	
25...	.08	<.010	.00	--	--	--	--	.010	--	.03	
OCT											
23...	.00	.010	.01	--	--	--	--	.030	--	.09	
NOV											
19...	--	--	--	--	--	--	--	--	--	--	
DEC											
18...	--	--	--	--	--	--	--	--	--	--	
JAN, 1980											
15...	.81	.070	.09	--	--	--	--	.040	--	.12	
FEB											
11...	--	--	--	--	--	--	--	--	--	--	

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 10 SUGARLOAF CREEK NEAR MONROE											
DATE	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,NH4 + ORG. TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHATE, TOTAL (MG/L AS P04)	PHOS- PHORUS TOTAL (MG/L AS P04)	
MAR, 1980											
17...	--	--	--	--	--	--	--	--	--	--	
APR 10...	.17	.100	.13	--	--	--	--	.050	--	.15	
MAY 01...	.08	.150	.19	--	--	--	--	.080	--	.25	
JUNE 05...	.10	.060	.08	--	--	--	--	.030	--	.09	
JULY 07...	.00	.000	.00	--	--	--	--	.030	--	.09	
NOV 19...	--	--	--	--	--	--	--	--	--	--	
DEC 11...	2.6	.050	--	.59	.64	.00	.67	.040	--	.12	
JAN, 1981											
21...	--	--	--	--	--	--	--	--	--	--	
FEB 18...	1.7	.040	--	.51	.55	.03	.52	.060	--	.18	
MAR 16...	--	--	--	--	--	--	--	--	--	--	
APR 22...	.29	.060	--	.42	.48	.00	.54	.030	--	.09	
MAY 20...	--	--	--	--	--	--	--	--	--	--	
JUNE 24...	.28	.090	--	.65	.74	.03	.71	.020	--	.06	
JULY 21...	--	--	--	--	--	--	--	--	--	--	
AUG 18...	.10	.090	--	.55	.64	.27	.37	.010	--	.03	
SEPT 15...	--	--	--	--	--	--	--	--	--	--	

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 10 SUGARLOAF CREEK NEAR MONROE											
DATE	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	ALUM- INUM, TOTAL, RECOV- ERABLE (UG/L AS AL)	ALUM- INUM, SUS- PEN- DED RECOV. (UG/L AS AL)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUS- PEN- DED TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BERYL- LIUM, TOTAL, RECOV- ERABLE (UG/L AS BE)	BERYL- LIUM, SUS- PEN- DED RECOV. (UG/L AS BE)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	BORON, DIS- SOLVED (UG/L AS B)
DEC, 1978											
12...1979	--	--	--	60	--	--	<1	--	--	--	--
JAN, 1979											
10...	--	--	--	40	--	--	<1	--	--	--	<20
FEB											
15...	--	--	--	50	--	--	<1	--	--	--	--
MAR											
01...	--	--	--	60	--	--	<1	--	--	--	--
APR											
03...	--	--	--	<100	--	--	<1	--	--	--	<20
11...	--	--	--	50	--	--	1	--	--	--	--
19...	--	--	--	20	--	--	<1	--	--	--	<20
MAY											
01...	--	--	--	<100	--	--	<1	--	--	--	50
03...	--	--	--	50	--	--	<1	--	--	--	30
14...	--	--	--	80	--	--	<1	--	--	--	<20
JUNE											
04...	--	--	--	60	--	--	<1	--	--	--	70
14...	--	--	--	10	--	--	1	--	--	--	0
29...	--	--	--	<100	--	--	1	--	--	--	<20
JULY											
03...	--	--	--	20	--	--	1	--	--	--	<20
AUG											
02...	--	--	--	10	--	--	1	--	--	--	--
SEPT											
12...	--	--	--	50	--	--	1	--	--	--	30
25...	--	--	--	<100	--	--	1	--	--	--	<20
OCT											
23...	--	--	--	0	--	--	0	--	--	--	30
NOV											
19...	--	--	--	0	--	--	1	--	--	--	--
DEC											
18...1980	--	--	--	60	--	--	1	--	--	--	--
JAN, 1980											
15...	--	--	--	190	--	--	0	--	--	--	20
FEB											
11...	--	--	--	10	--	--	0	--	--	--	--

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 10 SUGARLOAF CREEK NEAR MONROE											
DATE	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	ALUM- INUM, TOTAL, RECOV- ERABLE (UG/L AS AL)	ALUM- INUM, SUS- PENDE RECOV. (UG/L AS AL)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUS- PENDE TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BERYL- LIUM, TOTAL, RECOV- ERABLE (UG/L AS BE)	BERYL- LIUM, SUS- PENDE RECOV. (UG/L AS BE)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	BORON, DIS- SOLVED (UG/L AS B)
MAR, 1980											
MAR, 1980 17...	--	--	--	20	--	--	0	--	--	--	--
APR 10...	--	--	--	10	--	--	0	--	--	--	10
MAY 01...	--	--	--	50	--	--	1	--	--	--	20
JUNE 05...	--	--	--	40	--	--	1	--	--	--	0
JULY 07...	--	--	--	0	--	--	1	--	--	--	30
NOV 19...	--	--	--	--	--	--	--	--	--	--	40
DEC 11...	.020	--	--	--	0	0	0	0	--	<1	20
JAN, 1981 21...	--	--	--	--	--	--	--	--	--	--	0
FEB 18...	.030	--	--	--	0	0	0	0	--	<1	10
MAR 16...	--	670	410	200	--	--	--	--	--	--	0
APR 22...	.010	300	70	230	0	0	0	0	--	<1	20
MAY 20...	--	1600	1400	200	--	--	--	--	--	--	160
JUNE 24...	.010	800	700	100	1	0	1	0	--	<1	170
JULY 21...	--	1000	0	1000	--	--	--	--	--	--	20
AUG 18...	<.010	1200	700	500	0	0	0	0	--	<1	20
SEPT 15...	--	2000	1800	200	--	--	--	--	--	--	20

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 10 SUGARLOAF CREEK NEAR MONROE											
DATE	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM SUS- PENDE RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, SUS- PENDE RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, SUS- PENDE RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, SUS- PENDE RECOV- ERABLE (UG/L AS FE)
DEC, 1978											
12... JAN, 1979	--	--	3	--	--	ND	--	--	2	--	--
10... FEB	--	--	2	--	--	ND	--	--	<2	--	--
15... MAR	--	--	6	--	--	ND	--	--	ND	--	--
01... APR	--	--	4	--	--	ND	--	--	ND	--	--
03... 11... 19...	--	--	3 24 2	--	--	ND ND <20	--	--	2 2 ND	--	--
MAY											
01... 03... 14...	--	--	5 5 5	--	--	<20 ND ND	--	--	2 3 ND	--	--
JUNE											
04... 14... 29...	--	--	3 <2 <2	--	--	<20 <20 <20	--	--	ND ND ND	--	--
JULY											
03... AUG	--	--	ND	--	--	<20	--	--	ND	--	--
02... SEPT	--	--	3	--	--	ND	--	--	2	--	--
12... 25... OCT	--	--	<2 <2	--	--	ND <20	--	--	2 <2	--	--
23... NOV	--	--	<1	--	--	.00	--	--	0	--	--
19... DEC	--	--	2	--	--	.00	--	--	0	--	--
18... JAN, 1980	--	--	1	--	--	.00	--	--	0	--	--
15... FEB	--	--	1	--	--	.00	--	--	3	--	--
11...	--	--	0	--	--	.00	--	--	0	--	--

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 10 SUGARLOAF CREEK NEAR MONROE											
DATE	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM SUS- PENDE D RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, SUS- PENDE D RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, SUS- PENDE D RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, SUS- PENDE D RECOV- ERABLE (UG/L AS FE)
MAR, 1980											
17...	--	--	0	--	--	.00	--	--	2	--	--
APR											
10...	--	--	<1	--	--	.00	--	--	0	--	--
MAY											
01...	--	--	<1	--	--	.00	--	--	3	--	--
JUNE											
05...	--	--	<1	--	--	.00	--	--	2	--	--
JULY											
07...	--	--	<1	--	--	.00	--	--	2	--	--
NOV											
19...	--	--	--	--	--	--	--	--	--	340	250
DEC											
11...	0	--	<1	0	0	.00	9	7	2	940	890
JAN, 1981											
21...	--	--	--	--	--	--	--	--	--	440	310
FEB											
18...	0	--	<1	10	10	.00	4	1	3	660	360
MAR											
16...	--	--	--	--	--	--	--	--	--	620	510
APR											
22...	0	--	<1	0	0	.00	4	2	2	800	700
MAY											
20...	--	--	--	--	--	--	--	--	--	1200	940
JUNE											
24...	0	--	<1	10	10	.00	4	3	1	890	750
JULY											
21...	--	--	--	--	--	--	--	--	--	820	590
AUG											
18...	1	0	1	0	0	.00	5	4	1	1400	1200
SEPT											
15...	--	--	--	--	--	--	--	--	--	3000	2800

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 10 SUGARLOAF CREEK NEAR MONROE											
DATE	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, SUS- PENDED RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, SUS- PENDED RECOV. (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY SUS- PENDED RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)
DEC , 1978											
12... 1979	--	--	--	33	--	--	--	--	--	<.1	<1
JAN , 1979	70	--	--	15	--	--	<10	--	--	<.1	<1
FEB 10...	--	--	--	44	--	--	--	--	--	<.1	<1
MAR 15...	--	--	--	22	--	--	--	--	--	<.1	<1
APR 01...	--	--	--	39	--	--	<10	--	--	<.1	<10
03... 11...	120	--	--	ND	--	--	--	--	--	.3	<1
11... 19...	40	--	--	ND	--	--	20	--	--	<.1	<10
MAY 01...	140	--	--	130	--	--	30	--	--	<.1	<1
03... 14...	130	--	--	75	--	--	20	--	--	.3	<1
14... JUNE	80	--	--	42	--	--	20	--	--	<.1	<1
04... 14...	20	--	--	ND	--	--	20	--	--	.4	<1
14... 29...	310	--	--	ND	--	--	30	--	--	<.1	<1
29... JULY	50	--	--	ND	--	--	30	--	--	.2	<10
JULY 03...	220	--	--	ND	--	--	30	--	--	<.1	<1
AUG 02...	--	--	--	ND	--	--	--	--	--	<.1	<1
SEPT 12...	50	--	--	ND	--	--	30	--	--	<.1	<10
25... OCT	50	--	--	ND	--	--	30	--	--	<.1	<10
23... NOV	130	--	--	0	--	--	80	--	--	.0	<10
NOV 19...	--	--	--	1	--	--	--	--	--	.0	0
DEC 18... 1980	--	--	--	0	--	--	--	--	--	.0	3
JAN , 1980	150	--	--	1	--	--	30	--	--	.7	<10
15... FEB	--	--	--	0	--	--	--	--	--	.1	0
11...	--	--	--		--	--	--	--	--		

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 10 SUGARLOAF CREEK NEAR MONROE											
DATE	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL, RECOV- ERABLE (UG/L AS PB)	LEAD, SUS- PENDE RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, TOTAL, RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, SUS- PENDE RECOV. (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY SUS- PENDE RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)
MAR, 1980											
17...	--	--	--	0	--	--	--	--	--	1.5	0
APR 10...	180	--	--	0	--	--	30	--	--	.0	<10
MAY 01...	100	--	--	1	--	--	40	--	--	.1	<10
JUNE 05...	180	--	--	0	--	--	60	--	--	.0	<10
JULY 07...	250	--	--	0	--	--	170	--	--	.0	<10
NOV 19...	90	--	--	--	20	10	10	--	--	--	--
DEC 11...	50	5	5	0	20	0	20	.2	.2	.0	--
JAN, 1981	130	--	--	--	50	10	40	--	--	--	--
FEB 18...	300	2	2	0	30	10	20	.0	.0	.0	--
MAR 16...	110	--	--	--	20	0	20	--	--	--	--
APR 22...	100	0	0	0	70	30	40	.5	.5	.0	--
MAY 20...	260	--	--	--	40	10	30	--	--	--	--
JUNE 24...	140	13	12	1	60	20	40	.2	.2	.0	--
JULY 21...	230	--	--	--	60	20	43	--	--	--	--
AUG 18...	190	5	3	2	80	30	51	.1	.1	.0	--
SEPT 15...	180	--	--	--	100	70	30	--	--	--	--

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 10 SUGARLOAF CREEK NEAR MONROE											
DATE	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, SUS- PENDE RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELF- NIUM, TOTAL (UG/L AS SE)	SELF- NIUM, SUS- PENDE TOTAL (UG/L AS SE)	SELF- NIUM, DIS- SOLVED (UG/L AS SE)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, SUS- PENDE RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON, ORGANIC, DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC, SUS- PENDE TOTAL (MG/L AS C)
DEC, 1978	--	--	--	--	--	--	--	--	--	--	--
DEC 12, 1978	--	--	--	--	--	--	--	--	--	--	--
JAN, 1979	--	--	--	--	--	--	--	--	--	--	--
JAN 10, 1979	--	--	--	--	--	--	--	--	<3	1.9	.40
FEB 15, 1979	--	--	--	--	--	--	--	--	--	--	--
MAR 01, 1979	--	--	--	--	--	--	--	--	--	--	--
APR 03, 1979	--	--	--	--	--	--	--	--	5	--	--
APR 11, 1979	--	--	--	--	--	--	--	--	--	--	--
APR 19, 1979	--	--	--	--	--	--	--	--	<3	--	--
MAY 01, 1979	--	--	--	--	--	--	--	--	ND	--	--
MAY 03, 1979	--	--	--	--	--	--	--	--	ND	3.5	1.4
MAY 14, 1979	--	--	--	--	--	--	--	--	ND	11	.50
JUNE 04, 1979	--	--	--	--	--	--	--	--	<20	1.2	1.2
JUNE 14, 1979	--	--	--	--	--	--	--	--	20	1.7	.60
JUNE 29, 1979	--	--	--	--	--	--	--	--	7	2.7	.40
JULY 03, 1979	--	--	--	--	--	--	--	--	<20	2.8	.50
AUG 02, 1979	--	--	--	--	--	--	--	--	--	--	--
SEPT 12, 1979	--	--	--	--	--	--	--	--	<3	3.0	.60
SEPT 25, 1979	--	--	--	--	--	--	--	--	4	29	.70
OCT 23, 1979	--	--	--	--	--	--	--	--	<3	3.3	.20
NOV 19, 1979	--	--	--	--	--	--	--	--	--	--	--
DEC 18, 1979	--	--	--	--	--	--	--	--	--	--	--
JAN, 1980	--	--	--	--	--	--	--	--	--	--	--
JAN 15, 1980	--	--	--	--	--	--	--	--	8	1.1	--
FEB 11, 1980	--	--	--	--	--	--	--	--	--	--	--

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 10 SUGARLOAF CREEK NEAR MONROE											
DATE	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, SUS- PENDE RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, PENDE TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	ZINC, TOTAL, RECOV- ERABLE (UG/L AS ZN)	ZINC, SUS- PENDE RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDE TOTAL (MG/L AS C)
MAR, 1980											
17...	--	--	--	--	--	--	--	--	--	--	--
APR 10...	--	--	--	--	--	--	--	--	20	2.1	.30
MAY 01...	--	--	--	--	--	--	--	--	60	5.4	1.4
JUNE 05...	--	--	--	--	--	--	--	--	6	2.6	.50
JULY 07...	--	--	--	--	--	--	--	--	10	3.5	--
NOV 19...	--	--	--	--	--	--	--	--	--	--	--
DEC 11...	3	3	0	0	0	0	10	0	6	--	.40
JAN, 1981											
21...	--	--	--	--	--	--	--	--	--	--	--
FEB 18...	5	1	4	0	0	0	30	10	20	4.5	.60
MAR 16...	--	--	--	--	--	--	--	--	--	--	--
APR 22...	3	2	1	0	0	0	30	0	40	1.9	.40
MAY 20...	--	--	--	--	--	--	--	--	--	--	--
JUNE 24...	5	4	1	0	0	0	10	0	20	2.6	.60
JULY 21...	--	--	--	--	--	--	--	--	--	--	--
AUG 18...	3	2	1	0	0	0	10	0	5	1.1	.50
SEPT 15...	--	--	--	--	--	--	--	--	--	--	--

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 11 OWL CREEK NEAR McCURTAIN											
DATE	TIME	NITRO- GEN DIS- SOLVED (MG/L AS N)	HARD- NESS (MG/L AS CAC03)	HARD- NESS NONCAR- BONATE (MG/L CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	SULFATE DIS- SOLVED (MG/L AS SO4)
DEC, 1978											
04...	1500	--	--	--	--	--	--	--	--	--	--
JAN, 1979											
22...	0902	--	22	10	3.8	3.1	5.4	33	.5	1.2	20
FEB											
01...	0940	--	--	--	--	--	--	--	--	--	--
MAR											
09...	0957	--	--	--	--	--	--	--	--	--	--
APR											
04...	1420	--	32	14	5.7	4.4	7.1	32	.6	.90	24
16...	0945	--	33	17	5.6	4.5	7.2	32	.6	1.1	26
20...	0930	--	--	--	--	--	--	--	--	--	--
MAY											
02...	1105	--	63	31	11	8.7	9.0	23	.5	1.3	47
03...	0925	--	80	46	14	11	9.8	21	.5	1.4	64
17...	0918	--	39	16	7.7	4.9	7.5	29	.5	1.2	26
29...	1135	--	34	17	8.0	3.5	4.3	21	.3	1.2	17
JUNE											
09...	0910	--	42	18	7.7	5.5	5.9	23	.4	1.2	30
20...	0900	--	110	60	19	14	11	18	.5	1.6	76
26...	1410	--	140	89	23	20	15	19	.6	1.8	110
JULY											
02...	1030	--	160	99	28	22	15	17	.5	2.3	140
AUG											
01...	1000	--	--	--	--	--	--	--	--	--	--
NOV											
13...	1145	--	--	--	--	--	--	--	--	--	--
DEC											
24...	1020	--	--	--	--	--	--	--	--	--	--
JAN, 1980											
07...	0915	--	140	3	26	19	110	62	4	2.6	180
FEB											
07...	0840	--	--	--	--	--	--	--	--	--	--
MAR											
14...	0920	--	--	--	--	--	--	--	--	--	--
APR											
07...	0858	--	42	15	7.5	5.6	18	47	1	1.3	36

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 11 OWL CREEK NEAR MCCURTAIN											
DATE	TIME	NITRO- GEN DIS- SOLVED (MG/L AS N)	HARD- NESS (MG/L AS CACO3)	HARD- NESS NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	SULFATE DIS- SOLVED (MG/L AS SO4)
MAY, 1980											
02...	0920	--	47	19	8.5	6.2	13	36	.8	2.2	34
JUNE											
02...	0930	--	66	27	12	8.7	24	43	1	1.8	54
20...	1518	--	43	26	7.4	5.9	7.9	28	.5	1.9	51
JULY											
01...	1155	--	62	26	11	8.5	33	52	2	2.3	70
DEC											
08...	1257	1.2	53	35	10	6.7	23	45	1	--	55
JAN, 1981											
09...	1400	--	44	17	8.2	5.6	13	38	.9	1.4	33
FEB											
09...	1345	.56	84	44	14	12	31	44	2	1.6	78
MAR											
09...	1815	--	40	17	7.1	5.5	16	45	1	1.2	41
APR											
13...	1245	.87	53	24	9.5	7.2	23	47	1	2.1	47
29...	1245	--	38	8	6.8	5.0	16	47	1	1.6	32
MAY											
12...	1635	--	30	12	5.3	4.1	8.8	38	.7	1.2	27
JUNE											
06...	1615	--	22	3	4.5	2.5	4.1	27	.4	2.0	3.6
09...	1500	.13	37	14	6.6	5.0	9.0	34	.7	1.4	29
JULY											
13...	1325	--	60	26	11	7.8	19	40	1	2.4	46
AUG											
13...	1555	.88	67	36	12	8.9	15	32	.8	2.4	47
SEPT											
09...	1330	--	120	67	21	16	56	50	2	3.8	64
NOV											
17...	1700	--	73	--	13	9.8	21	38	1	1.7	47

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 11 OWL CREEK NEAR McCURTAIN											
DATE	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SI02)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS NO3)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS NO2)
DEC, 1978	--	--	--	--	--	--	--	--	--	--	--
04... JAN, 1979	--	--	--	--	--	--	--	--	--	--	--
22... FEB	4.3	<.10	8.2	65	56	.09	6.7	.58	2.6	<.010	.00
01... MAR	--	--	--	--	--	--	--	--	--	--	--
09... APR	--	--	--	--	--	--	--	--	--	--	--
04... 16... 20... MAY	4.1 3.7 --	.10 .10 --	9.7 8.7 --	61 59 --	68 67 --	.08 .08 --	6.1 4.0 --	.10 .06 --	.44 .27 --	.010 .010 --	.03 .03 --
02... 03... 17... 29... JUNE	4.8 4.8 3.9 2.3 --	.10 .10 .10 .10 --	7.8 7.6 7.7 8.4 --	108 133 63 56 --	110 130 73 56 --	.15 .18 .09 .08 --	4.4 31 .73 25 --	.03 .09 .00 .04 --	.13 .40 .00 .18 --	.010 .010 --	.03 .03 .00 .03 --
09... 20... 26... JULY	2.9 4.0 4.3 --	.10 .10 .10 --	9.2 8.3 9.9 --	77 169 219 --	77 160 210 --	.10 .23 .30 --	10 .40 .28 --	.06 .00 .01 --	.27 .00 .04 --	.010 --	.03 .00 .00 --
02... AUG	5.4 --	.10 --	7.1 --	254 --	260 --	.35 --	.10 --	.01 --	.04 --	<.010 --	.00 --
01... NOV	--	--	--	--	--	--	--	--	--	--	--
13... DEC	--	--	--	--	--	--	--	--	--	--	--
24... JAN, 1980	--	--	--	--	--	--	--	--	--	--	--
07... FEB	34	.20	7.1	467	460	.64	.61	.18	.80	.020	.07
07... MAR	--	--	--	--	--	--	--	--	--	--	--
14... APR	--	--	--	--	--	--	--	--	--	--	--
07... MAY	13	.10	4.2	106	100	.14	1.7	.01	.04	.000	.00

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 11 OWL CREEK NEAR MCCURTAIN											
DATE	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SI02)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS NO3)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS NO2)
MAY, 1980											
02...	9.1	.10	6.3	104	97	.14	126	.12	.53	.010	.03
JUNE											
02...	20	.20	6.3	168	150	.23	1.3	.00	.00	.000	.00
20...	2.6	.20	9.1	99	97	.13	37	.07	.31	.010	.03
JULY											
01...	16	.10	7.4	195	170	.27	1.5	.33	1.5	.010	.03
DEC											
08...	18	.20	6.3	141	140	.19	62	--	--	--	--
JAN, 1981											
09...	11	.10	7.9	93	97	.13	.10	--	--	--	--
FEB											
09...	19	.20	6.3	190	190	.26	.70	--	--	--	--
MAR											
09...	11	.10	8.0	102	100	.14	5.8	--	--	--	--
APR											
13...	14	.10	6.5	148	130	.20	2.1	--	--	--	--
29...	10	.10	8.6	108	99	.15	3.8	--	--	--	--
MAY											
12...	6.1	.00	10	--	73	.10	9.9	--	--	--	--
JUNE											
06...	2.7	.00	11	--	42	.06	72	--	--	--	--
09...	5.9	.00	12	85	83	.12	6.7	--	--	--	--
JULY											
13...	20	.10	7.5	137	140	.19	.41	--	--	--	--
AUG											
13...	15	.10	8.8	135	130	.18	.74	--	--	--	--
SEPT											
09...	94	.10	4.0	289	290	.39	.01	--	--	--	--
NOV											
17...	30	.10	11	161	--	.22	3.4	--	--	--	--

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 11 OWL CREEK NEAR MCCURTAIN											
DATE	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHATE, TOTAL (MG/L AS P04)	PHOS- PHORUS TOTAL (MG/L AS P04)	
DEC, 1978											
04...	--	--	--	--	--	--	--	--	--	--	
JAN, 1979											
22...	.58	<.010	.00	--	--	--	--	.030	.09	--	
FEB											
01...	--	--	--	--	--	--	--	--	--	--	
MAR											
09...	--	--	--	--	--	--	--	--	--	--	
APR											
04...	.11	.010	.01	--	--	--	--	.020	.06	--	
16...	.07	.010	.01	--	--	--	--	.020	.06	.06	
20...	--	--	--	--	--	--	--	--	--	--	
MAY											
02...	.04	.010	.01	--	--	--	--	.030	.09	.09	
03...	.10	.060	.08	--	--	--	--	.050	.15	.15	
17...	<.10	.040	.05	--	--	--	--	.030	.09	.09	
29...	.05	<.010	.00	--	--	--	--	.040	.12	.12	
JUNE											
09...	.07	<.010	.00	--	--	--	--	.040	.12	.12	
20...	<.10	<.010	.00	--	--	--	--	.020	.06	.06	
26...	.01	<.010	.00	--	--	--	--	.010	.03	.03	
JULY											
02...	.01	<.010	.00	--	--	--	--	.010	.03	.03	
AUG											
01...	--	--	--	--	--	--	--	--	--	--	
NOV											
13...	--	--	--	--	--	--	--	--	--	--	
DEC											
24...	--	--	--	--	--	--	--	--	--	--	
JAN, 1980											
07...	.20	.070	.09	--	--	--	--	.040	--	.12	
FEB											
07...	--	--	--	--	--	--	--	--	--	--	
MAR											
14...	--	--	--	--	--	--	--	--	--	--	
APR											
07...	.01	.000	.00	--	--	--	--	.070	--	.21	

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 11 OWL CREEK NEAR McCURTAIN										
DATE	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHATE, TOTAL (MG/L AS P04)	PHOS- PHORUS TOTAL (MG/L AS P04)
MAY, 1980										
02...	.13	--	.060	.08	--	--	--	.100	--	.31
JUNE										
02...	.00	--	.020	.03	--	--	--	.040	--	.12
20...	.08	--	.080	.10	--	--	--	.140	--	.43
JULY										
01...	.34	--	.110	.14	--	--	--	.010	--	.03
DEC										
08...	.46	.080	--	--	1.5	1.6	.84	.090	--	.28
JAN, 1981										
09...	--	--	--	--	--	--	--	--	--	--
FEB										
09...	.00	.020	--	--	.53	.55	.00	.010	--	.03
MAR										
09...	--	--	--	--	--	--	--	--	--	--
APR										
13...	.02	.080	--	--	.92	1.0	.15	.070	--	.21
29...	--	--	--	--	--	--	--	--	--	--
MAY										
12...	--	--	--	--	--	--	--	--	--	--
JUNE										
06...	--	--	--	--	--	--	--	--	--	--
09...	.05	.020	--	--	1.1	1.1	1.0	.080	--	.25
JULY										
13...	--	--	--	--	--	--	--	--	--	--
AUG										
13...	.18	.080	--	--	1.0	1.1	.40	.100	--	.31
SEPT										
09...	--	--	--	--	--	--	--	--	--	--
NOV										
17...	--	--	--	--	--	--	--	--	--	--

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 11 OWL CREEK NEAR McCURTAIN											
DATE	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	ALUM- INUM, TOTAL RECOV- ERABLE (UG/L AS AL)	ALUM- INUM, SUS- PENDE RECOV. (UG/L AS AL)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUS- PENDE TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	BERYL- LIUM, SUS- PENDE RECOV. (UG/L AS BE)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	BORON, DIS- SOLVED (UG/L AS B)
DEC, 1978											
04...	--	--	--	20	--	--	<1	--	--	--	--
JAN, 1979											
22...	--	--	--	80	--	--	<1	--	--	--	<20
FEB											
01...	--	--	--	60	--	--	<1	--	--	--	--
MAR											
09...	--	--	--	20	--	--	<1	--	--	--	--
APR											
04...	--	--	--	10	--	--	<1	--	--	--	30
16...	--	--	--	50	--	--	<1	--	--	--	40
20...	--	--	--	30	--	--	<1	--	--	--	--
MAY											
02...	--	--	--	10	--	--	<1	--	--	--	40
03...	--	--	--	10	--	--	<1	--	--	--	50
17...	--	--	--	30	--	--	<1	--	--	--	30
29...	--	--	--	<100	--	--	1	--	--	--	30
JUNE											
09...	--	--	--	20	--	--	1	--	--	--	40
20...	--	--	--	10	--	--	1	--	--	--	70
26...	--	--	--	20	--	--	1	--	--	--	40
JULY											
02...	--	--	--	10	--	--	1	--	--	--	50
AUG											
01...	--	--	--	40	--	--	1	--	--	--	--
NOV											
13...	--	--	--	60	--	--	0	--	--	--	--
DEC											
24...	--	--	--	50	--	--	1	--	--	--	--
JAN, 1980											
07...	--	--	--	20	--	--	0	--	--	--	70
FEB											
07...	--	--	--	20	--	--	0	--	--	--	--
MAR											
14...	--	--	--	40	--	--	0	--	--	--	--
APR											
07...	--	--	--	60	--	--	0	--	--	--	50

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 11 OWL CREEK NEAR MCCURTAIN

DATE	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	ALUM- INUM, TOTAL RECOV- ERABLE (UG/L AS AL)	ALUM- INUM, SUS- PENDE RECOV. (UG/L AS AL)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUS- PENDE TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	BERYL- LIUM, SUS- PENDE RECOV. (UG/L AS BE)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	BORON, DIS- SOLVED (UG/L AS B)
MAY, 1980											
02...	--	--	--	40	--	--	0	--	--	--	50
JUNE											
02...	--	--	--	50	--	--	1	--	--	--	50
20...	--	--	--	10	--	--	1	--	--	--	30
JULY											
01...	--	--	--	20	--	--	1	--	--	--	70
DEC											
08...	.040	--	--	--	1	0	1	0	--	<1	30
JAN, 1981											
09...	--	--	--	--	--	--	--	--	--	--	20
FEB											
09...	.030	--	--	--	0	0	0	10	--	<1	30
MAR											
09...	--	--	--	--	--	--	--	--	--	--	20
APR											
13...	.020	120	100	20	1	1	0	0	--	<1	30
29...	--	500	380	120	1	0	1	0	--	<1	20
MAY											
12...	--	750	750	0	--	--	--	--	--	--	0
JUNE											
06...	--	800	700	100	2	2	0	0	--	<1	10
09...	.040	400	400	50	1	1	0	0	--	<1	20
JULY											
13...	--	2000	1000	1000	--	--	--	--	--	--	40
AUG											
13...	.040	6000	5500	500	1	1	0	0	--	<1	40
SEPT											
09...	--	500	500	0	--	--	--	--	--	--	100
NOV											
17...	--	600	540	60	1	--	<1	<10	--	<1	30

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 11 OWL CREEK NEAR MCCURTAIN											
DATE	CADMIUM			CHRO- MIUM, SUS- PENDED RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, SUS- PENDED RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, SUS- PENDED RECOV- ERABLE (UG/L AS FE)	
	TOTAL RECOV- ERABLE (UG/L AS CD)	SUS- PENDED RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)								
DEC, 1978											
04... 1979	--	--	3	--	ND	--	--	<2	--	--	
JAN, 1979											
22...	--	--	<2	--	ND	--	--	2	--	--	
FEB											
01...	--	--	6	--	ND	--	--	2	--	--	
MAR											
09...	--	--	4	--	ND	--	--	ND	--	--	
APR											
04...	--	--	5	--	ND	--	--	ND	--	--	
16...	--	--	4	--	ND	--	--	ND	--	--	
20...	--	--	4	--	ND	--	--	ND	--	--	
MAY											
02...	--	--	5	--	<20	--	--	2	--	--	
03...	--	--	4	--	ND	--	--	4	--	--	
17...	--	--	4	--	ND	--	--	ND	--	--	
29...	--	--	2	--	ND	--	--	<2	--	--	
JUNE											
09...	--	--	<2	--	20	--	--	2	--	--	
20...	--	--	ND	--	20	--	--	ND	--	--	
26...	--	--	<2	--	<20	--	--	ND	--	--	
JULY											
02...	--	--	<2	--	<20	--	--	ND	--	--	
AUG											
01...	--	--	2	--	ND	--	--	<2	--	--	
NOV											
13...	--	--	1	--	.00	--	--	0	--	--	
DEC											
24... 1980	--	--	1	--	.00	--	--	0	--	--	
JAN, 1980											
07...	--	--	<1	--	.00	--	--	0	--	--	
FEB											
07...	--	--	0	--	.00	--	--	2	--	--	
MAR											
14...	--	--	0	--	.00	--	--	3	--	--	
APR											
07...	--	--	<1	--	.00	--	--	0	--	--	

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 11 OWL CREEK NEAR MCCURTAIN											
DATE	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM SUS- PENDE RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, SUS- PENDE RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, SUS- PENDE RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, SUS- PENDE RECOV- ERABLE (UG/L AS FE)
MAY, 1980											
02...	--	--	1	--	--	.00	--	--	2	--	--
JUNE											
02...	--	--	<1	--	--	.00	--	--	2	--	--
20...	--	--	<1	--	--	.00	--	--	3	--	--
JULY											
01...	--	--	<1	--	--	.00	--	--	3	--	--
DEC											
08...	0	0	1	0	0	.00	9	3	6	5600	5600
JAN, 1981											
09...	--	--	--	--	--	--	--	--	--	670	450
FEB											
09...	0	--	<1	0	0	.00	3	1	2	520	350
MAR											
09...	--	--	--	--	--	--	--	--	--	1100	960
APR											
13...	0	--	<1	20	20	.00	7	5	2	690	580
29...	0	--	<1	20	20	.00	5	3	2	1200	950
MAY											
12...	--	--	--	--	--	--	--	--	--	1200	1100
JUNE											
06...	1	--	<1	10	0	10	11	8	3	6000	5800
09...	1	--	<1	0	0	.00	4	3	1	1300	1200
JULY											
13...	--	--	--	--	--	--	--	--	--	1700	1500
AUG											
13...	1	--	<1	0	0	.00	6	5	1	5100	5000
SEPT											
09...	--	--	--	--	--	--	--	--	--	260	230
NOV											
17...	<1	--	<1	<10	--	<10	3	2	1	2200	2100

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 11 OWL CREEK NEAR McCURTAIN											
DATE	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL, RECOV- ERABLE (UG/L AS PB)	LEAD, SUS- PENDE RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, TOTAL, RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, SUS- PENDE RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY SUS- PENDE RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)
DEC, 1978											
04...	--	--	--	22	--	--	--	--	--	<.1	<1
JAN, 1979											
22...	100	--	--	<2	--	--	20	--	--	<.1	<1
FEB											
01...	--	--	--	55	--	--	--	--	--	<.1	<1
MAR											
09...	--	--	--	52	--	--	--	--	--	<.1	<1
APR											
04...	180	--	--	18	--	--	30	--	--	<.1	<10
16...	60	--	--	50	--	--	30	--	--	.2	<10
20...	--	--	--	60	--	--	--	--	--	<.1	<1
MAY											
02...	80	--	--	9	--	--	50	--	--	<.1	<1
03...	180	--	--	78	--	--	60	--	--	.3	<1
17...	60	--	--	16	--	--	30	--	--	.2	<1
29...	180	--	--	8	--	--	20	--	--	.3	<1
JUNE											
09...	150	--	--	ND	--	--	30	--	--	<.1	<1
20...	30	--	--	<2	--	--	<10	--	--	<.1	<1
26...	<10	--	--	ND	--	--	<10	--	--	<.1	<10
JULY											
02...	<10	--	--	ND	--	--	40	--	--	<.1	<1
AUG											
01...	--	--	--	ND	--	--	--	--	--	<.1	<1
NOV											
13...	--	--	--	0	--	--	--	--	--	.0	1
DEC											
24...	--	--	--	0	--	--	--	--	--	.0	0
JAN, 1980											
07...	120	--	--	0	--	--	20	--	--	.4	<10
FEB											
07...	--	--	--	0	--	--	--	--	--	.0	0
MAR											
14...	--	--	--	0	--	--	--	--	--	1.1	0
APR											
07...	10	--	--	0	--	--	70	--	--	.0	<10

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 11 OWL CREEK NEAR McCURTAIN											
DATE	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL, RECOV- ERABLE (UG/L AS PB)	LEAD, SUS- PENDE RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, TOTAL, RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, SUS- PENDE RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL, RECOV- ERABLE (UG/L AS HG)	MERCURY SUS- PENDE RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)
MAY, 1980											
02...	60	--	--	2	--	--	40	--	--	.1	<10
JUNE											
02...	190	--	--	1	--	--	30	--	--	.1	<10
20...	40	--	--	0	--	--	80	--	--	.0	<10
JULY											
01...	<10	--	--	0	--	--	10	--	--	.1	<10
DEC											
08...	50	8	8	0	380	240	140	.0	.0	.0	--
JAN, 1981											
09...	220	--	--	--	70	10	60	--	--	--	--
FEB											
09...	170	5	5	0	40	10	30	.1	.0	.1	--
MAR											
09...	140	--	--	--	40	10	30	--	--	--	--
APR											
13...	110	3	3	0	80	40	40	.1	.1	.0	--
29...	250	4	0	4	60	60	5	.3	.3	.0	--
MAY											
12...	80	--	--	--	60	20	40	--	--	--	--
JUNE											
06...	210	35	32	3	220	210	10	.1	.1	.0	--
09...	130	16	13	3	50	10	40	.1	.1	.0	--
JULY											
13...	180	--	--	--	50	40	10	--	--	--	--
AUG											
13...	78	8	7	1	100	80	17	.0	.0	.0	--
SEPT											
09...	28	--	--	--	1500	1400	150	--	--	--	--
NOV											
17...	150	5	--	<1	40	6	34	<.1	--	<.1	--

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 11 OWL CREEK NEAR MCCURTAIN											
DATE	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, SUS- PENDE RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, SUS- PENDE TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, SUS- PENDE RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDE TOTAL (MG/L AS C)
DEC, 1978											
04...	--	--	--	--	--	--	--	--	--	--	--
JAN, 1979											
22...	--	--	--	--	--	--	--	--	<3	4.8	.80
FEB											
01...	--	--	--	--	--	--	--	--	--	--	--
MAR											
09...	--	--	--	--	--	--	--	--	--	--	--
APR											
04...	--	--	--	--	--	--	--	--	4	--	--
16...	--	--	--	--	--	--	--	--	<3	--	--
20...	--	--	--	--	--	--	--	--	--	--	--
MAY											
02...	--	--	--	--	--	--	--	--	<20	11	.40
03...	--	--	--	--	--	--	--	--	<20	5.1	8.0
17...	--	--	--	--	--	--	--	--	<20	1.9	.40
29...	--	--	--	--	--	--	--	--	ND	7.4	1.0
JUNE											
09...	--	--	--	--	--	--	--	--	ND	8.4	.60
20...	--	--	--	--	--	--	--	--	<20	2.6	.70
26...	--	--	--	--	--	--	--	--	<3	3.8	--
JULY											
02...	--	--	--	--	--	--	--	--	20	3.4	.50
AUG											
01...	--	--	--	--	--	--	--	--	--	--	--
NOV											
13...	--	--	--	--	--	--	--	--	--	--	--
DEC											
24...	--	--	--	--	--	--	--	--	--	--	--
JAN, 1980											
07...	--	--	--	--	--	--	--	--	8	4.1	.40
FEB											
07...	--	--	--	--	--	--	--	--	--	--	--
MAR											
14...	--	--	--	--	--	--	--	--	--	--	--
APR											
07...	--	--	--	--	--	--	--	--	<3	1.9	.30

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 11 OWL CREEK NEAR McCURTAIN											
DATE	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, SUS- PENDE RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, SUS- PENDE RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDE TOTAL (MG/L AS C)	
MAY, 1980											
02...	--	--	--	--	--	--	--	<3	7.7	1.3	
JUNE											
02...	--	--	--	--	--	--	--	40	5.1	.70	
20...	--	--	--	--	--	--	--	10	8.3	1.5	
JULY											
01...	--	--	--	--	--	--	--	10	3.2	.50	
DEC											
08...	10	5	5	0	0	70	60	8	11	--	
JAN, 1981											
09...	--	--	--	--	--	--	--	--	--	--	
FEB											
09...	2	0	3	0	0	30	30	5	12	.70	
MAR											
09...	--	--	--	--	--	--	--	--	--	--	
APR											
13...	1	0	1	0	0	20	20	5	5.4	.40	
29...	5	3	2	0	0	20	20	4	--	--	
MAY											
12...	--	--	--	--	--	--	--	--	--	--	
JUNE											
06...	14	11	3	0	0	110	100	10	--	--	
09...	7	6	1	0	0	10	0	150	3.9	.50	
JULY											
13...	--	--	--	--	--	--	--	--	--	--	
AUG											
13...	6	6	0	0	0	50	40	7	4.9	1.1	
SEPT											
09...	--	--	--	--	--	--	--	--	--	--	
NOV											
17...	1	0	2	<1	<1	30	0	41	--	--	

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 12 HOLLI-TUSKA CREEK NEAR PANAMA												
DATE	TIME	NITRO- GEN DIS- SOLVED (MG/L AS N)	HARD- NESS (MG/L AS CAC03)	HARD- NESS, NONCAR- BONATE (MG/L CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	SULFATE DIS- SOLVED (MG/L AS SO4)	
JAN, 1979												
22...	1345	--	27	10	7.4	2.1	5.4	28	.5	2.7	14	
FEB												
01...	1135	--	--	--	--	--	--	--	--	--	--	
MAR												
09...	1146	--	--	--	--	--	--	--	--	--	--	
APR												
09...	1000	--	--	--	--	--	--	--	--	--	--	
16...	1142	--	28	6	6.7	2.7	10	42	.9	1.5	18	
25...	1505	--	31	10	7.7	2.9	8.3	35	.7	2.1	14	
MAY												
02...	1403	--	34	4	8.4	3.2	9.2	36	.7	1.6	16	
05...	1205	--	30	3	8.0	2.5	7.0	32	.6	2.0	12	
JUNE												
09...	1115	--	32	4	8.5	2.6	6.6	30	.5	1.5	14	
15...	1230	--	32	2	7.8	3.0	9.0	37	.7	1.7	14	
AUG												
01...	1225	--	--	--	--	--	--	--	--	--	--	
NOV												
26...	1200	--	--	--	--	--	--	--	--	--	--	
DEC												
17...	0835	--	--	--	--	--	--	--	--	--	--	

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 12 HOLLI-TUSKA CREEK NEAR PANAMA

DATE	TIME	NITRO- GEN DIS- SOLVED (MG/L AS N)	HARD- NESS (MG/L AS CAC03)	HARD- NESS, NONCAR- BONATE (MG/L CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	SULFATE DIS- SOLVED (MG/L AS S04)
JAN, 1980											
14....	1200	--	32	8	7.1	3.5	10	37	.8	3.3	22
FEB											
07....	1020	--	--	--	--	--	--	--	--	--	--
MAR											
14....	0810	--	--	--	--	--	--	--	--	--	--
APR											
07....	1130	--	32	8	7.4	3.2	9.8	38	.8	2.2	22
MAY											
05....	0845	--	31	6	7.5	3.0	8.8	36	.7	2.5	16
JUNE											
02....	1130	--	42	0	9.8	4.2	13	38	.9	2.7	16
APR, 1981											
23....	1000	1.3	49	0	11	5.1	19	43	1	4.8	--
MAY											
19....	1235	--	27	3	6.6	2.6	9.0	40	.8	2.2	14
22....	0945	--	30	--	7.4	2.7	9.7	39	.8	2.3	15
JUNE											
25....	1005	1.1	--	--	--	3.6	13	--	--	2.9	--
JULY											
01....	1515	--	38	4	10	3.1	11	36	.8	3.1	--
DEC											
15....	--	--	29	--	6.6	3.1	15	50	1	2.2	22

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 12 HOLI-TUSKA CREEK NEAR PANAMA

DATE	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SI02)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N03)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N02)
JAN, 1979											
22....	6.5	.10	7.9	63	66	.09	1.1	2.1	9.3	<.010	.00
FEB											
01....	--	--	--	--	--	--	--	--	--	--	--
MAR											
09....	--	--	--	--	--	--	--	--	--	--	--
APR											
09....	--	--	--	--	--	--	--	--	--	--	--
16....	6.1	.10	8.8	67	69	.09	.87	.23	1.0	.010	.03
25....	7.3	.10	9.3	89	66	.12	.84	.29	1.3	.010	.03
MAY											
02....	6.5	.10	5.5	75	70	.10	.69	.15	.66	.020	.07
05....	5.1	.10	7.7	65	62	.09	1.2	.23	1.0	.010	.03
JUNE											
09....	4.1	.10	8.6	69	64	.09	.45	.13	.58	.010	.03
15....	--	.10	8.1	73	--	.10	.02	.10	.44	.010	.03
AUG											
01....	--	--	--	--	--	--	--	--	--	--	--
NOV											
26....	--	--	--	--	--	--	--	--	--	--	--
DEC											
17....	--	--	--	--	--	--	--	--	--	--	--

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 12 HOLI-TUSKA CREEK NEAR PANAMA											
DATE	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SI02)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N03)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N02)
JAN, 1980											
14...	9.4	.10	7.3	98	78	.13	.04	.02	.09	.010	.03
FEB											
07...	--	--	--	--	--	--	--	--	--	--	--
MAR											
14...	--	--	--	--	--	--	--	--	--	--	--
APR											
07...	8.2	.10	5.9	72	74	.10	.14	.01	.04	.010	.03
MAY											
05...	5.8	.10	8.8	87	69	.12	.23	.09	.40	.010	.03
JUNE											
02...	7.9	.20	8.7	103	88	.14	.01	.03	.13	.010	.03
APR, 1981											
23...	7.5	.20	7.2	137	--	.19	.07	--	--	--	--
MAY											
19...	6.0	.10	11	74	66	.10	.11	--	--	--	--
22...	6.7	.10	11	84	--	.11	--	--	--	--	--
JUNE											
25...	7.3	.10	9.9	93	--	.13	.00	--	--	--	--
JULY											
01...	6.1	.10	7.1	87	--	.12	.03	--	--	--	--
DEC											
15...	9.9	.10	9.9	99	--	.13	--	--	--	--	--

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites---Continued

SITE 12 HOLI-TUSKA CREEK NEAR PANAMA												
DATE	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHATE, TOTAL (MG/L AS P04)	PHOS- PHORUS TOTAL (MG/L AS P04)	
JAN, 1979												
22...	2.1	--	.110	.14	--	--	--	--	.030	.09	--	--
FEB												
01...	--	--	--	--	--	--	--	--	--	--	--	--
MAR												
09...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
09...	--	--	--	--	--	--	--	--	--	--	--	--
16...	.24	--	.030	.04	--	--	--	--	.030	.09	.09	
25...	.30	--	.060	.08	--	--	--	--	.050	.15	.15	
MAY												
02...	.17	--	.010	.01	--	--	--	--	.040	.12	.12	
05...	.24	--	.140	.18	--	--	--	--	.050	.15	.15	
JUNE												
09...	.14	--	<.010	.00	--	--	--	--	.040	.12	.12	
15...	.11	--	<.010	.00	--	--	--	--	.030	.09	.09	
AUG												
01...	--	--	--	--	--	--	--	--	--	--	--	--
NOV												
26...	--	--	--	--	--	--	--	--	--	--	--	--
DEC												
17...	--	--	--	--	--	--	--	--	--	--	--	--

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 12 HOLLI-TUSKA CREEK NEAR PANAMA										
	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHATE, TOTAL (MG/L AS P04)	PHOS- PHORUS TOTAL (MG/L AS P04)
DATE										
JAN, 1980										
14...	.03	--	.020	.03	--	--	--	.040	--	.12
FEB										
07...	--	--	--	--	--	--	--	--	--	--
MAR										
14...	--	--	--	--	--	--	--	--	--	--
APR										
07...	.02	--	.000	.00	--	--	--	.050	--	.15
MAY										
05...	.10	--	.090	.12	--	--	--	.060	--	.18
JUNE										
02...	.04	--	.060	.08	--	--	--	.050	--	.15
APR, 1981										
23...	.48	.260	--	1.4	1.7	.84	.86	.100	--	.31
MAY										
19...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
JUNE										
25...	.18	.130	--	1.1	1.2	.24	.96	.040	--	.12
JULY										
01...	--	--	--	--	--	--	--	--	--	--
DEC										
15...	--	--	--	--	--	--	--	--	--	--

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 12 HOLL-TUSKA CREEK NEAR PANAMA											
DATE	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	ALUM- INUM, TOTAL RECOV- ERABLE (UG/L AS AL)	ALUM- INUM, SUS- PENDE RECOV. (UG/L AS AL)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUS- PENDE TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	BERYL- LIUM, SUS- PENDE RECOV. (UG/L AS BE)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	BORON, DIS- SOLVED (UG/L AS B)
JAN, 1979											
22...	--	--	--	80	--	--	<1	--	--	--	<20
FEB											
01...	--	--	--	30	--	--	<1	--	--	--	--
MAR											
09...	--	--	--	10	--	--	<1	--	--	--	--
APR											
09...	--	--	--	30	--	--	<1	--	--	--	--
16...	--	--	--	10	--	--	<1	--	--	--	30
25...	--	--	--	30	--	--	1	--	--	--	<20
MAY											
02...	--	--	--	40	--	--	1	--	--	--	30
05...	--	--	--	30	--	--	<1	--	--	--	30
JUNE											
09...	--	--	--	30	--	--	1	--	--	--	40
15...	--	--	--	10	--	--	1	--	--	--	0
AUG											
01...	--	--	--	20	--	--	1	--	--	--	--
NOV											
26...	--	--	--	40	--	--	1	--	--	--	--
DEC											
17...	--	--	--	80	--	--	1	--	--	--	--

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 12 HOLLITUSKA CREEK NEAR PANAMA											
DATE	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	ALUM- INUM, TOTAL RECOV- ERABLE (UG/L AS AL)	ALUM- INUM, SUS- PENDE RECOV. (UG/L AS AL)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUS- PENDE TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE)	BERYL- LIUM, SUS- PENDE RECOV. (UG/L AS BE)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	BORON, DIS- SOLVED (UG/L AS B)
JAN, 1980											
14...	--	--	--	90	--	--	0	--	--	--	30
FEB											
07...	--	--	--	20	--	--	0	--	--	--	--
MAR											
14...	--	--	--	40	--	--	0	--	--	--	--
APR											
07...	--	--	--	100	--	--	1	--	--	--	30
MAY											
05...	--	--	--	70	--	--	1	--	--	--	60
JUNE											
02...	--	--	--	10	--	--	1	--	--	--	40
APR, 1981											
23...	.020	500	440	60	2	1	1	0	--	<1	40
MAY											
19...	--	1200	1200	0	--	--	--	--	--	--	10
22...	--	--	--	--	--	--	--	--	--	--	20
JUNE											
25...	.010	500	400	100	1	0	1	0	--	<1	30
JULY											
01...	--	1200	200	1000	--	--	--	--	--	--	20
DEC											
15...	--	--	--	--	--	--	--	--	--	--	10

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 12 HOLI-TUSKA CREEK NEAR PANAMA																
DATE	CADMIUM		CADMIUM SUS- PENDE D RECOV- ERABLE (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)		CHRO- MIUM, SUS- PENDE D RECOV. (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)		COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)		COPPER, SUS- PENDE D RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)		IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, SUS- PENDE D RECOV- ERABLE (UG/L AS FE)	
	TOTAL RECOV- ERABLE (UG/L AS CD)	PENDE D RECOV- ERABLE (UG/L AS CD)		TOTAL RECOV- ERABLE (UG/L AS CR)	PENDE D RECOV. (UG/L AS CR)		TOTAL RECOV- ERABLE (UG/L AS CR)	PENDE D RECOV- ERABLE (UG/L AS CR)	TOTAL RECOV- ERABLE (UG/L AS CU)	PENDE D RECOV- ERABLE (UG/L AS CU)						
JAN, 1979																
22...	--	--		4	--	--	ND	ND	--	--	--	2	--	--	--	
FEB																
01...	--	--		4	--	--	ND	ND	--	--	--	<2	--	--	--	
MAR																
09...	--	--		4	--	--	ND	ND	--	--	--	ND	--	--	--	
APR																
09...	--	--		25	--	--	ND	ND	--	--	--	2	--	--	--	
16...	--	--		3	--	--	ND	ND	--	--	--	ND	--	--	--	
25...	--	--		2	--	--	ND	ND	--	--	--	<2	--	--	--	
MAY																
02...	--	--		4	--	--	ND	ND	--	--	--	<2	--	--	--	
05...	--	--		<2	--	--	ND	ND	--	--	--	<2	--	--	--	
JUNE																
09...	--	--		<2	--	--	20	20	--	--	--	<2	--	--	--	
15...	--	--		<2	--	--	<20	<20	--	--	--	ND	--	--	--	
AUG																
01...	--	--		<2	--	--	ND	ND	--	--	--	<2	--	--	--	
NOV																
26...	--	--		3	--	--	.00	.00	--	--	--	0	--	--	--	
DEC																
17...	--	--		2	--	--	.00	.00	--	--	--	0	--	--	--	

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 12 HOLLI-TUSKA CREEK NEAR PANAMA														
DATE	CADMIUM		CADMIUM SUS- PENDE RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, SUS- PENDE RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, SUS- PENDE RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, SUS- PENDE RECOV- ERABLE (UG/L AS FE)		
	TOTAL RECOV- ERABLE (UG/L AS CD)	SUS- PENDE RECOV- ERABLE (UG/L AS CD)												
JAN, 1980														
14...	--	--	--	1	--	--	.00	--	--	0	--	--		
FEB														
07...	--	--	--	0	--	--	.00	--	--	1	--	--		
MAR														
14...	--	--	--	0	--	--	10	--	--	3	--	--		
APR														
07...	--	--	--	<1	--	--	.00	--	--	1	--	--		
MAY														
05...	--	--	--	<1	--	--	.00	--	--	4	--	--		
JUNE														
02...	--	--	--	<1	--	--	.00	--	--	1	--	--		
APR, 1981														
23...	0	--	--	<1	20	10	10	5	0	5	2300	1200		
MAY														
19...	--	--	--	--	--	--	--	--	--	--	2000	1700		
22...	--	--	--	--	--	--	--	--	--	--	2100	1600		
JUNE														
25...	0	--	--	<1	10	10	.00	5	3	2	1100	860		
JULY														
01...	--	--	--	--	--	--	--	--	--	--	3400	3300		
DEC														
15...	--	--	--	--	--	--	--	--	--	--	3900	3700		

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 12 HOLI-TUSKA CREEK NEAR PANAMA

DATE	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, SUS- PENDE RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, SUS- PENDE RECOV. (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY SUS- PENDE RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)
JAN, 1979											
22...	100	--	--	12	--	--	20	--	--	<.1	<1
FEB											
01...	--	--	--	21	--	--	--	--	--	<.1	<1
MAR											
09...	--	--	--	7	--	--	--	--	--	<.1	<1
APR											
09...	--	--	--	190	--	--	--	--	--	<.1	<1
16...	150	--	--	18	--	--	30	--	--	.3	<10
25...	120	--	--	48	--	--	40	--	--	.3	<10
MAY											
02...	200	--	--	49	--	--	30	--	--	.2	<1
05...	60	--	--	58	--	--	30	--	--	.5	<1
JUNE											
09...	70	--	--	ND	--	--	40	--	--	<.1	<1
15...	450	--	--	ND	--	--	<10	--	--	<.1	<1
AUG											
01...	--	--	--	ND	--	--	--	--	--	<.1	<1
NOV											
26...	--	--	--	0	--	--	--	--	--	.0	2
DEC											
17...	--	--	--	5	--	--	--	--	--	.0	0

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 12 HOLI-TUSKA CREEK NEAR PANAMA										
DATE	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, SUS- PENDE RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, SUS- PENDE RECOV. (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY SUS- PENDE RECOV- ERABLE (UG/L AS HG)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)
JAN, 1980										
14...	430	--	--	2	--	--	30	--	--	<10
FEB										
07...	--	--	--	0	--	--	--	--	--	0
MAR										
14...	--	--	--	0	--	--	--	--	--	0
APR										
07...	430	--	--	0	--	--	50	--	--	<10
MAY										
05...	750	--	--	3	--	--	60	--	--	<10
JUNE										
02...	30	--	--	1	--	--	6	--	--	<10
APR, 1981										
23...	1100	0	0	3	300	80	220	.1	.1	--
MAY										
19...	300	--	--	--	60	30	30	--	--	--
22...	470	--	--	--	70	40	30	--	--	--
JUNE										
25...	240	12	11	1	60	40	20	.3	.3	--
JULY										
01...	150	--	--	--	110	100	8	--	--	--
DEC										
15...	210	--	--	--	70	30	42	--	--	--

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 12 HOLLI-TUSKA CREEK NEAR PANAMA

DATE	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, SUS- PENDE RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, SUS- PENDE RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDE TOTAL (MG/L AS C)
JAN, 1979										
22...	--	--	--	--	--	--	--	<3	4.9	.80
FEB										
01...	--	--	--	--	--	--	--	--	--	--
MAR										
09...	--	--	--	--	--	--	--	--	--	--
APR										
09...	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	<3	--	--
25...	--	--	--	--	--	--	--	<3	--	--
MAY										
02...	--	--	--	--	--	--	--	<20	9.4	1.2
05...	--	--	--	--	--	--	--	<20	11	1.2
JUNE										
09...	--	--	--	--	--	--	--	ND	6.9	.50
15...	--	--	--	--	--	--	--	<20	4.0	.50
AUG										
01...	--	--	--	--	--	--	--	--	--	--
NOV										
26...	--	--	--	--	--	--	--	--	--	--
DEC										
17...	--	--	--	--	--	--	--	--	--	--

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 12 HOLI-TUSKA CREEK NEAR PANAMA																
DATE	NICKEL, SUS- TOTAL RECOV- ERABLE (UG/L AS NI)		NICKEL, DIS- SOLVED (UG/L AS NI)		SELE- NIUM, SUS- TOTAL (UG/L AS SE)		SELE- NIUM, DIS- SOLVED (UG/L AS SE)		ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)		ZINC, SUS- PENDE RECOV- ERABLE (UG/L AS ZN)		ZINC, DIS- SOLVED (UG/L AS ZN)		CARBON, ORGANIC SUS- PENDE TOTAL (MG/L AS C)	
	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	SUS- PENDE RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, SUS- TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, SUS- PENDE RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDE TOTAL (MG/L AS C)						
JAN, 1980																
14...	--	--	--	--	--	--	--	--	--	--	9	--	7.4	--	--	--
FEB																
07...	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR																
14...	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
APR																
07...	--	--	--	--	--	--	--	--	--	--	4	--	8.7	--	.30	.30
MAY																
05...	--	--	--	--	--	--	--	--	--	--	10	--	12	--	.50	.50
JUNE																
02...	--	--	--	--	--	--	--	--	--	--	<3	--	8.6	--	.80	.80
APR, 1981																
23...	5	1	4	0	0	0	0	0	60	40	20	17	1.3			
MAY																
19...	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
JUNE																
25...	5	3	2	0	0	0	0	0	40	30	10	6.9	1.5			
JULY																
01...	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
DEC																
15...	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 13 MUDDY BOGGY CREEK AT ATOKA											
DATE	TIME	NITRO- GEN DIS- SOLVED (MG/L AS N)	HARD- NESS (MG/L AS CACO3)	HARD- NESS NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	SULFATE DIS- SOLVED (MG/L AS SO4)
JULY, 1978											
26...	0920	--	90	12	22	8.4	23	34	1	5.2	23
DEC											
14...	0845	--	--	--	--	--	--	--	--	--	--
JAN, 1979											
16...	0800	--	99	28	23	10	30	39	1	4.0	54
FEB											
23...	0849	--	--	--	--	--	--	--	--	--	--
MAR											
07...	0817	--	--	--	--	--	--	--	--	--	--
APR											
13...	1100	--	60	19	16	4.8	15	34	.9	2.6	23
24...	0802	--	53	13	13	4.9	13	33	.8	2.8	22
27...	0735	--	--	--	--	--	--	--	--	--	--
MAY											
08...	0900	--	90	39	22	8.5	41	49	2	3.2	29
16...	0805	--	68	15	17	6.3	18	35	1	3.1	31
24...	1005	--	39	7	9.8	3.6	8.7	30	.6	3.8	8.9
JUNE											
06...	0748	--	38	4	9.4	3.5	6.7	26	.5	3.3	12
19...	0830	--	110	31	30	9.6	24	31	1	3.4	39
23...	0815	--	120	22	31	11	30	34	1	3.7	45
JULY											
19...	1935	--	34	0	8.7	3.0	7.9	30	.6	4.1	10
AUG											
16...	1620	--	--	--	--	--	--	--	--	--	--
29...	1545	--	--	--	--	--	--	--	--	--	--
SEPT											
13...	1615	--	61	0	15	5.8	18	37	1	3.5	30
20...	1555	--	79	17	20	7.0	20	34	1	4.4	37
OCT											
24...	1605	--	78	0	19	7.5	20	34	1	4.3	32
NOV											
28...	0800	--	--	--	--	--	--	--	--	--	--
DEC											
13...	1530	--	--	--	--	--	--	--	--	--	--
JAN, 1980											
10...	0800	--	240	140	55	25	120	52	3	3.8	130

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

		SITE 13 MUDDY BOGGY CREEK AT ATOKA									
DATE	TIME	NITRO- GEN DIS- SOLVED (MG/L AS N)	HARD- NESS (MG/L AS CAC03)	HARD- NESS NONCAR- BONATE (MG/L CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	SULFATE DIS- SOLVED (MG/L AS SO4)
FEB, 1980											
06...	0830	--	--	--	--	--	--	--	--	--	--
MAR											
11...	1515	--	--	--	--	--	--	--	--	--	--
APR											
01...	1425	--	160	71	41	15	72	48	3	4.1	49
15...	1430	--	120	45	29	11	43	43	2	4.6	72
MAY											
13...	1820	--	77	19	20	6.6	19	33	1	4.1	46
JUNE											
03...	1612	--	50	11	13	4.3	--	--	--	--	--
JULY											
02...	1420	--	63	6	16	5.6	16	33	.9	4.9	22
OCT											
20...	1715	1.7	41	11	9.6	4.1	9.2	30	.6	4.3	27
NOV											
19...	1445	--	62	24	14	6.6	29	48	2	4.7	57
DEC											
17...	1635	2.0	54	18	13	5.3	19	41	1	3.3	38
JAN, 1981											
16...	1534	--	75	--	18	7.4	23	39	1	3.4	53
FEB											
06...	1344	1.3	90	28	21	9.0	32	43	2	3.5	64
MAR											
05...	1655	--	40	12	9.4	3.9	12	38	.9	2.8	27
APR											
10...	1540	1.3	80	24	19	7.8	22	36	1	3.6	44
MAY											
07...	1300	--	110	38	25	11	43	45	2	4.6	87
JUNE											
07...	2025	1.3	28	5	7.4	2.4	4.8	24	.4	3.9	4.3
JULY											
14...	1310	--	54	13	14	4.6	15	35	.9	4.7	16
AUG											
12...	1535	1.3	48	5	12	4.4	11	31	.7	4.0	--
SEPT											
10...	1610	--	53	10	13	5.1	16	37	1	4.8	--

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

MUDDY BOGGY CREEK AT ATOKA												
SITE 13			SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS NO3)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS NO2)	
DATE	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)										
JULY, 1978												
26...	37	.20	7.5	--	180	.24	6.1	.35	1.5	.050	.16	
DEC												
14...	--	--	--	--	--	--	--	--	--	--	--	
JAN, 1979												
16...	25	.10	10	217	200	.30	2.2	.24	1.1	.010	.03	
FEB												
23...	--	--	--	--	--	--	--	--	--	--	--	
MAR												
07...	--	--	--	--	--	--	--	--	--	--	--	
APR												
13...	18	.20	6.4	--	110	.15	280	.33	1.5	.020	.07	
24...	11	.10	9.0	112	100	.15	28	.18	.80	.010	.03	
27...	--	--	--	--	--	--	--	--	--	--	--	
MAY												
08...	67	.10	8.4	248	210	.34	42	.20	.89	.010	.03	
16...	18	.20	6.8	139	130	.19	14	.22	.97	.010	.03	
24...	6.5	.20	7.3	91	69	.12	885	.20	.89	.020	.07	
JUNE												
06...	6.1	.10	7.3	88	70	.12	318	.10	.44	.020	.07	
19...	27	.20	10	206	190	.28	29	.20	.89	.010	.03	
23...	34	.20	13	243	230	.33	16	.03	.13	<.010	.00	
JULY												
19...	8.6	<.10	5.3	81	71	.11	33	.41	1.8	.020	.07	
AUG												
16...	--	--	--	--	--	--	--	--	--	--	--	
29...	--	--	--	--	--	--	--	--	--	--	--	
SEPT												
13...	9.6	.20	18	129	140	.18	1.1	.28	1.2	.010	.03	
20...	10	.20	8.4	165	170	.22	1.2	4.1	18	.040	.13	
OCT												
24...	14	.20	8.9	166	160	.23	3.4	.06	.27	.010	.03	
NOV												
28...	--	--	--	--	--	--	--	--	--	--	--	
DEC												
13...	--	--	--	--	--	--	--	--	--	--	--	
JAN, 1980												
10...	180	.20	3.4	625	580	.85	9.3	.08	.35	.010	.03	

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 13 MUDDY BOGGY CREEK AT ATOKA												
DATE	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SI02)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS NO3)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS NO2)	
FEB, 1980												
06...	--	--	--	--	--	--	--	--	--	--	--	
MAR												
11...	--	--	--	--	--	--	--	--	--	--	--	
APR												
01...	130	.30	5.0	404	380	.55	10	.45	2.0	.020	.07	
15...	42	.10	--	268	250	.36	2.5	.59	2.6	.040	.13	
MAY												
13...	16	.20	7.6	165	160	.22	3.9	.32	1.4	.040	.13	
JUNE												
03...	--	--	--	--	--	--	--	--	--	--	--	
JULY												
02...	19	.30	7.3	146	130	.20	2.7	.12	.53	.000	.00	
OCT												
20...	6.8	.10	7.8	95	88	.13	4.5	--	--	--	--	
NOV												
19...	20	.60	6.3	182	160	.25	12	--	--	--	--	
DEC												
17...	17	.10	6.5	144	120	.20	3.9	--	--	--	--	
JAN, 1981												
16...	20	.20	8.2	175	--	.24	.86	--	--	--	--	
FEB												
06...	19	.10	8.3	204	190	.28	.83	--	--	--	--	
MAR												
05...	10	.10	7.9	94	90	.13	244	--	--	--	--	
APR												
10...	17	.20	7.3	172	160	.23	3.2	--	--	--	--	
MAY												
07...	33	.10	8.5	269	250	.37	4.0	--	--	--	--	
JUNE												
07...	4.0	.10	7.0	66	49	.09	520	--	--	--	--	
JULY												
14...	21	.10	7.8	127	110	.17	4.5	--	--	--	--	
AUG												
12...	12	.20	7.8	103	--	.14	1.3	--	--	--	--	
SEPT												
10...	13	.20	7.7	119	--	.16	2.1	--	--	--	--	

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 13 MUDDY BOGGY CREEK AT ATOKA											
DATE	NITRO- GEN, NO2+N03 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHATE, TOTAL (MG/L AS P04)	PHOS- PHORUS TOTAL (MG/L AS P04)	
JULY, 1978											
JULY, 1978	.40	--	.040	.05	--	--	--	.150	.46	--	
DEC 26...											
DEC 14...	--	--	--	--	--	--	--	--	--	--	
JAN, 1979											
JAN, 1979	.25	--	.040	.05	--	--	--	.140	.43	--	
FEB 16...											
FEB 23...	--	--	--	--	--	--	--	--	--	--	
MAR 07...	--	--	--	--	--	--	--	--	--	--	
APR 13...	.35	--	.060	.08	--	--	--	.260	.80	.80	
APR 24...	.19	--	.040	.05	--	--	--	.090	.28	.28	
APR 27...	--	--	--	--	--	--	--	--	--	--	
MAY 08...	.21	--	.040	.05	--	--	--	.110	.34	.34	
MAY 16...	.23	--	<.010	.00	--	--	--	.120	.37	.37	
MAY 24...	.22	--	.140	.18	--	--	--	.130	.40	.40	
JUNE 06...	.12	--	<.010	.00	--	--	--	.060	.18	.18	
JUNE 19...	.21	--	.140	.18	--	--	--	.070	.21	.21	
JUNE 23...	.03	--	<.010	.00	--	--	--	.040	.12	.12	
JULY 19...	.43	--	.070	.09	--	--	--	.210	--	.64	
AUG 16...	--	--	--	--	--	--	--	--	--	--	
AUG 29...	--	--	--	--	--	--	--	--	--	--	
SEPT 13...	.29	--	.010	.01	--	--	--	.080	--	.25	
SEPT 20...	4.1	--	2.20	2.8	--	--	--	.240	--	.74	
OCT 24...	.07	--	.030	.04	--	--	--	.130	--	.40	
NOV 28...	--	--	--	--	--	--	--	--	--	--	
DEC 13...	--	--	--	--	--	--	--	--	--	--	
JAN, 1980											
JAN, 1980	.09	--	.070	.09	--	--	--	.040	--	.12	

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

DATE	SITE 13 MUDDY BOGGY CREEK AT ATOKA									
	NITRO- GEN, NO2+N03 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHATE, TOTAL (MG/L AS P04)	PHOS- PHORUS TOTAL (MG/L AS P04)
FEB, 1980										
06...	--	--	--	--	--	--	--	--	--	--
MAR										
11...	--	--	--	--	--	--	--	--	--	--
APR										
01...	.47	.290	.37	--	--	--	--	.120	--	.37
15...	.63	.340	.44	--	--	--	--	.200	--	.61
MAY										
13...	.36	.120	.15	--	--	--	--	.140	--	.43
JUNE										
03...	--	--	--	--	--	--	--	--	--	--
JULY										
02...	.12	.000	.00	--	--	--	--	.160	--	.49
OCT										
20...	.51	.170	--	1.0	1.2	.00	1.2	.120	--	.37
NOV										
19...	--	--	--	--	--	--	--	--	--	--
DEC										
17...	.82	.000	--	2.0	2.0	.80	1.2	.260	--	.80
JAN, 1981										
16...	--	--	--	--	--	--	--	--	--	--
FEB										
06...	.50	.070	--	1.6	1.7	.91	.79	.070	--	.21
MAR										
05...	--	--	--	--	--	--	--	--	--	--
APR										
10...	.35	.080	--	1.2	1.3	.36	.94	.150	--	.46
MAY										
07...	--	--	--	--	--	--	--	--	--	--
JUNE										
07...	.35	.340	.13	2.1	2.4	1.5	.94	.380	--	1.2
JULY										
14...	--	--	--	--	--	--	--	--	--	--
AUG										
12...	.23	.110	--	4.6	4.7	3.6	1.1	.180	--	.55
SEPT										
10...	--	--	--	--	--	--	--	--	--	--

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 13 MUDDY BOGGY CREEK AT ATOKA											
DATE	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	ALUM- INUM, TOTAL, RECOV- ERABLE (UG/L AS AL)	ALUM- INUM, SUS- PENDE RECOV. (UG/L AS AL)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUS- PENDE TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BERYL- LIUM, TOTAL, RECOV- ERABLE (UG/L AS BE)	BERYL- LIUM, SUS- PENDE RECOV. (UG/L AS BE)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	BORON, DIS- SOLVED (UG/L AS B)
JULY, 1978											
26...	--	--	--	30	--	--	1	--	--	--	80
DEC											
14...	--	--	--	110	--	--	1	--	--	--	--
JAN, 1979											
16...	--	--	--	20	--	--	1	--	--	--	80
FEB											
23...	--	--	--	40	--	--	1	--	--	--	--
MAR											
07...	--	--	--	30	--	--	1	--	--	--	--
APR											
13...	--	--	--	200	--	--	1	--	--	--	120
24...	--	--	--	40	--	--	1	--	--	--	60
27...	--	--	--	20	--	--	1	--	--	--	--
MAY											
08...	--	--	--	60	--	--	1	--	--	--	60
16...	--	--	--	40	--	--	1	--	--	--	60
24...	--	--	--	20	--	--	1	--	--	--	60
JUNE											
06...	--	--	--	190	--	--	2	--	--	--	80
19...	--	--	--	20	--	--	2	--	--	--	50
23...	--	--	--	20	--	--	2	--	--	--	90
JULY											
19...	--	--	--	120	--	--	1	--	--	--	40
AUG											
16...	--	--	--	<100	--	--	1	--	--	--	--
29...	--	--	--	70	--	--	1	--	--	--	--
SEPT											
13...	--	--	--	50	--	--	1	--	--	--	90
20...	--	--	--	20	--	--	1	--	--	--	90
OCT											
24...	--	--	--	110	--	--	1	--	--	--	80
NOV											
28...	--	--	--	0	--	--	1	--	--	--	--
DEC											
13...	--	--	--	10	--	--	1	--	--	--	--
JAN, 1980											
10...	--	--	--	0	--	--	0	--	--	--	130

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 13 MUDDY BOGGY CREEK AT ATOKA										
DATE	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	ALUM- INUM, TOTAL, RECOV- ERABLE (UG/L AS AL)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUS- PEN- DED TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BERYL- LIUM, TOTAL, RECOV- ERABLE (UG/L AS BE)	BERYL- LIUM, SUS- PEN- DED RECOV. (UG/L AS BE)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	BORON, DIS- SOLVED (UG/L AS B)
FEB, 1980										
06...	--	--	--	20	--	0	--	--	--	--
MAR										
11...	--	--	--	20	--	0	--	--	--	--
APR										
01...	--	--	--	10	--	0	--	--	--	90
15...	--	--	--	30	--	1	--	--	--	110
MAY										
13...	--	--	--	40	--	1	--	--	--	90
JUNE										
03...	--	--	--	--	--	--	--	--	--	--
JULY										
02...	--	--	--	40	--	1	--	--	--	90
OCT										
20...	.030	--	--	--	2	1	0	--	<1	70
NOV										
19...	--	--	--	--	--	--	--	--	--	150
DEC										
17...	.040	--	--	--	2	1	10	--	<1	20
JAN, 1981										
16...	--	--	--	--	--	--	--	--	--	50
FEB										
06...	.050	--	--	--	2	0	0	--	<1	70
MAR										
05...	--	--	--	--	--	--	--	--	--	30
APR										
10...	.020	--	--	440	1	0	0	--	<1	50
MAY										
07...	--	--	--	--	--	--	--	--	--	90
JUNE										
07...	.040	22000	21000	830	9	1	0	0	.0	210
JULY										
14...	--	6400	5400	1000	--	--	--	--	--	50
AUG										
12...	.050	2500	2300	200	3	1	0	0	1	50
SEPT										
10...	--	10000	9900	100	--	--	--	--	--	50

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

MUDDY BOGGY CREEK AT ATOKA											
SITE 13		CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, SUS- PENDE D RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, SUS- PENDE D RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, SUS- PENDE D RECOV- ERABLE (UG/L AS FE)		
DATE	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM SUS- PENDE D RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)								
JULY, 1978											
26...	--	--	2	--	--	ND	--	--	--		
DEC											
14...	--	--	5	--	--	ND	--	--	--		
JAN, 1979											
16...	--	--	9	--	--	ND	--	--	--		
FEB											
23...	--	--	4	--	--	ND	--	--	--		
MAR											
07...	--	--	3	--	--	ND	--	--	--		
APR											
13...	--	--	9	--	--	ND	--	--	--		
24...	--	--	2	--	--	ND	--	--	--		
27...	--	--	2	--	--	<20	--	--	--		
MAY											
08...	--	--	2	--	--	ND	--	--	--		
16...	--	--	4	--	--	ND	--	--	--		
24...	--	--	4	--	--	ND	--	--	--		
JUNE											
06...	--	--	<2	--	--	20	--	--	--		
19...	--	--	3	--	--	<20	--	--	--		
23...	--	--	2	--	--	<20	--	--	--		
JULY											
19...	--	--	<2	--	--	ND	--	--	--		
AUG											
16...	--	--	<2	--	--	<20	--	--	--		
29...	--	--	ND	--	--	<20	--	--	--		
SEPT											
13...	--	--	2	--	--	20	--	--	--		
20...	--	--	<2	--	--	ND	--	--	--		
OCT											
24...	--	--	<1	--	--	.00	--	--	--		
NOV											
28...	--	--	2	--	--	.00	--	--	--		
DEC											
13...	--	--	0	--	--	.00	--	--	--		
JAN, 1980											
10...	--	--	<1	--	--	.00	--	--	--		

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 13 MUDDY BOGGY CREEK AT ATOKA											
DATE	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM SUS- PENDE D RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, SUS- PENDE D RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, SUS- PENDE D RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, SUS- PENDE D RECOV- ERABLE (UG/L AS FE)
FEB, 1980											
06...	--	--	0	--	--	.00	--	--	1	--	--
MAR											
11...	--	--	1	--	--	.00	--	--	4	--	--
APR											
01...	--	--	<1	--	--	.00	--	--	2	--	--
15...	--	--	<1	--	--	.00	--	--	2	--	--
MAY											
13...	--	--	<1	--	--	.00	--	--	3	--	--
JUNE											
03...	--	--	--	--	--	--	--	--	--	--	--
JULY											
02...	--	--	<1	--	--	.00	--	--	4	--	--
OCT											
20...	1	--	<1	10	10	.00	29	22	7	3100	2900
NOV											
19...	--	--	--	--	--	--	--	--	--	3000	2800
DEC											
17...	0	--	<1	20	20	.00	13	0	13	7500	7400
JAN, 1981											
16...	--	--	--	--	--	--	--	--	--	4100	3900
FEB											
06...	0	--	<1	10	0	10	6	0	15	1300	1200
MAR										19000	19000
05...	--	--	--	--	--	--	--	--	--	6500	6400
APR											
10...	1	0	1	30	10	20	13	5	8	5700	5500
MAY											
07...	--	--	--	--	--	--	--	--	--	24000	24000
JUNE											
07...	2	1	1	30	20	10	29	21	8	11000	11000
JULY											
14...	--	--	--	--	--	--	--	--	--	3700	3600
AUG											
12...	0	--	<1	0	0	.00	8	6	2	7500	7500
SEPT											
10...	--	--	--	--	--	--	--	--	--		

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 13 MUDDY BOGGY CREEK AT ATOKA											
DATE	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL, RECOV- ERABLE (UG/L AS PB)	LEAD, SUS- PENDE RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, TOTAL, RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, SUS- PENDE RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL, RECOV- ERABLE (UG/L AS HG)	MERCURY SUS- PENDE RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)
JULY, 1978											
26... DEC	80	--	--	36	--	--	390	--	--	<.1	1
14... JAN, 1979	--	--	--	10	--	--	--	--	--	<.1	<1
16... FEB	200	--	--	14	--	--	300	--	--	<.1	<1
23... MAR	--	--	--	45	--	--	--	--	--	<.1	<1
07... APR	--	--	--	34	--	--	--	--	--	<.1	<1
13... MAY	650	--	--	82	--	--	30	--	--	<.1	<1
24... JUNE	200	--	--	14	--	--	70	--	--	.4	<10
27... JULY	--	--	--	5	--	--	--	--	--	.2	<1
08... AUG	90	--	--	30	--	--	130	--	--	.2	<10
16... SEP	220	--	--	58	--	--	150	--	--	<.1	<1
24... OCT	240	--	--	20	--	--	30	--	--	.6	<1
06... NOV	440	--	--	ND	--	--	40	--	--	<.1	<1
19... DEC	40	--	--	15	--	--	150	--	--	.7	<1
23... JAN, 1980	<10	--	--	ND	--	--	8	--	--	<.1	<10
19... FEB	190	--	--	<2	--	--	40	--	--	<.1	<10
16... MAR	--	--	--	ND	--	--	--	--	--	<.1	<1
29... APR	--	--	--	ND	--	--	--	--	--	<.1	<1
13... MAY	110	--	--	ND	--	--	120	--	--	<.1	<10
20... JUNE	30	--	--	ND	--	--	100	--	--	.3	<10
24... JULY	100	--	--	0	--	--	330	--	--	.0	<10
28... AUG	--	--	--	0	--	--	--	--	--	.0	0
13... SEP	--	--	--	0	--	--	--	--	--	.0	2
10... OCT	20	--	--	2	--	--	200	--	--	.0	<10

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 13 MUDDY BOGGY CREEK AT ATOKA												
DATE	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL, RECOV- ERABLE (UG/L AS PB)	LEAD, SUS- PENDE RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, TOTAL, RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, SUS- PENDE RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY SUS- PENDE RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	
FEB, 1980												
06...	--	--	--	0	--	--	--	--	--	.0	0	
MAR												
11...	--	--	--	0	--	--	--	--	--	1.1	0	
APR												
01...	20	--	--	0	--	--	490	--	--	.0	<10	
15...	40	--	--	0	--	--	340	--	--	.0	<10	
MAY												
13...	40	--	--	0	--	--	160	--	--	.1	<10	
JUNE												
03...	--	--	--	--	--	--	--	--	--	--	0	
JULY												
02...	130	--	--	0	--	--	100	--	--	1.7	<10	
OCT												
20...	230	5	5	0	120	70	50	.1	.1	.0	--	
NOV												
19...	180	--	--	--	280	80	200	--	--	--	--	
DEC												
17...	120	11	11	0	160	90	70	.0	.0	.0	--	
JAN, 1981												
16...	200	--	--	--	220	60	160	--	--	--	--	
FEB												
06...	70	8	6	2	130	50	80	.2	.1	.1	--	
MAR												
05...	350	--	--	--	500	470	30	--	--	--	--	
APR												
10...	150	2	0	2	260	170	90	.2	.2	.0	--	
MAY												
07...	190	--	--	--	720	150	570	--	--	--	--	
JUNE												
07...	230	38	38	0	550	460	90	.3	.3	.0	--	
JULY												
14...	220	--	--	--	320	170	150	--	--	--	--	
AUG												
12...	110	9	9	0	320	170	150	.1	.1	.0	--	
SEPT												
10...	41	--	--	--	270	230	38	--	--	--	--	

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 13 MUDDY BOGGY CREEK AT ATOKA										
DATE	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, SUS- PENDE RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, SUS- PENDE RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDE TOTAL (MG/L AS C)
JULY, 1978										
26...	--	--	--	--	--	--	--	<20	--	--
DEC										
14...	--	--	--	--	--	--	--	--	--	--
JAN, 1979										
16...	--	--	--	--	--	--	--	7	10	1.1
FEB										
23...	--	--	--	--	--	--	--	--	--	--
MAR										
07...	--	--	--	--	--	--	--	--	--	--
APR										
13...	--	--	--	--	--	--	--	20	--	--
24...	--	--	--	--	--	--	--	<3	--	--
27...	--	--	--	--	--	--	--	--	--	--
MAY										
08...	--	--	--	--	--	--	--	40	13	1.5
16...	--	--	--	--	--	--	--	<20	11	2.0
24...	--	--	--	--	--	--	--	<20	16	--
JUNE										
06...	--	--	--	--	--	--	--	<20	15	8.1
19...	--	--	--	--	--	--	--	<20	8.5	2.3
23...	--	--	--	--	--	--	--	<3	7.8	--
JULY										
19...	--	--	--	--	--	--	--	5	14	2.5
AUG										
16...	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--
SEPT										
13...	--	--	--	--	--	--	--	110	5.8	1.4
20...	--	--	--	--	--	--	--	20	5.8	3.3
OCT										
24...	--	--	--	--	--	--	--	4	6.2	.50
NOV										
28...	--	--	--	--	--	--	--	--	--	--
DEC										
13...	--	--	--	--	--	--	--	--	--	--
JAN, 1980										
10...	--	--	--	--	--	--	--	4	8.5	.40

Table 4.--Concentration of selected common constituents, nutrients, and trace elements of water at selected sites--Continued

SITE 13 MUDDY BOGGY CREEK AT ATOKA

DATE	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, SUS- PENDE RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, SUS- PENDE RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	CARBON, ORGANIC SUS- PENDE TOTAL (MG/L AS C)
FEB, 1980										
06...	--	--	--	--	--	--	--	--	--	--
MAR										
11...	--	--	--	--	--	--	--	--	--	--
APR										
01...	--	--	--	--	--	--	--	8	7.2	7.70
15...	--	--	--	--	--	--	--	<3	6.9	3.2
MAY										
13...	--	--	--	--	--	--	--	<3	9.3	3.7
JUNE										
03...	--	--	--	--	--	--	--	--	13	1.7
JULY										
02...	--	--	--	--	--	--	--	7	11	1.5
OCT										
20...	7	7	0	0	0	40	30	8	--	--
NOV										
19...	--	--	--	--	--	--	--	--	--	--
DEC										
17...	11	8	3	0	0	40	30	8	12	2.3
JAN, 1981										
16...	--	--	--	--	--	--	--	--	--	--
FEB										
06...	9	9	0	0	0	10	0	5	8.4	.80
MAR										
05...	--	--	--	--	--	--	--	--	--	--
APR										
10...	17	15	2	0	0	60	50	10	11	.40
MAY										
07...	--	--	--	--	--	--	--	--	--	--
JUNE										
07...	26	22	4	1	0	120	40	80	13	4.5
JULY										
14...	--	--	--	--	--	--	--	--	--	--
AUG										
12...	8	6	2	0	0	30	30	4	9.5	1.7
SEPT										
10...	--	--	--	--	--	--	--	--	--	--

Table 5.--Mean daily specific conductance, in microsiemens per centimeter at 25 degrees Celsius, of water at selected sites

SITE 5 COAL CREEK NEAR SPIRO

WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT
1	---	---	656	---	---	---	198	381	---	---	---	613
2	---	---	689	---	---	---	202	460	---	---	---	587
3	---	---	510	---	---	---	231	---	---	---	---	616
4	---	---	459	455	---	---	259	---	---	---	---	625
5	---	---	---	443	---	---	283	221	---	---	---	632
6	---	---	---	440	---	---	307	288	---	---	---	658
7	---	---	---	466	---	---	340	353	---	---	---	663
8	---	---	---	491	---	---	362	448	---	---	537	671
9	---	---	---	534	---	---	360	564	---	---	541	694
10	---	991	---	536	---	---	371	642	---	---	561	715
11	---	948	675	513	---	---	236	---	---	---	394	730
12	---	910	678	507	---	---	202	---	---	---	462	744
13	---	868	693	461	---	---	256	---	---	---	542	747
14	---	789	669	488	---	---	277	---	---	---	585	756
15	---	689	692	534	---	---	318	---	---	---	411	769
16	---	655	707	566	---	---	336	---	---	---	414	755
17	---	350	712	475	---	---	365	---	---	---	550	786
18	---	390	731	336	---	---	380	---	---	448	579	790
19	---	555	776	195	---	---	356	---	---	515	594	792
20	---	668	838	177	---	---	374	---	---	543	577	783
21	---	734	853	187	---	---	426	---	---	560	554	739
22	---	761	862	213	---	---	466	---	---	586	579	709
23	---	764	860	254	---	---	372	---	---	---	547	661
24	---	766	863	298	---	---	294	---	---	---	605	707
25	---	791	873	---	---	---	374	---	---	---	---	696
26	---	531	864	---	---	---	431	---	---	---	---	760
27	---	422	855	---	---	184	399	---	---	---	---	778
28	---	537	843	---	---	213	395	---	---	---	---	744
29	---	603	851	---	---	231	441	---	---	---	525	714
30	---	651	843	---	---	204	457	---	---	---	588	747
31	---	---	765	---	---	217	---	---	---	---	631	---
MEAN	---	684	753	408	---	210	336	420	---	530	543	713

Table 5.--Mean daily specific conductance, in microsiemens per centimeter at 25 degrees Celsius, of water at selected sites--Continued

SITE 5 COAL CREEK NEAR SPIRO

WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT
1	794	---	705	503	601	535	262	574	---	779	1050	---
2	785	---	719	539	621	535	294	400	531	797	1040	---
3	797	---	753	552	622	559	321	199	606	807	1030	---
4	806	---	759	511	604	636	332	269	644	828	998	---
5	787	732	765	507	615	614	348	392	689	848	1060	---
6	761	732	768	557	611	568	384	484	738	864	1090	---
7	779	726	723	555	592	700	415	513	768	872	---	---
8	794	726	615	584	536	808	436	508	762	872	---	---
9	784	747	698	627	407	804	448	487	757	869	---	---
10	787	641	742	688	402	783	---	516	747	913	---	---
11	784	615	695	760	360	741	---	575	744	945	---	---
12	804	661	675	754	343	680	---	591	746	971	---	---
13	824	719	438	778	333	610	---	592	758	986	---	---
14	778	747	492	815	332	557	570	596	782	976	---	---
15	849	636	484	835	349	---	579	553	810	965	---	---
16	840	751	562	822	350	---	588	202	850	978	---	---
17	884	757	586	722	355	---	564	358	758	1030	---	---
18	913	769	610	690	374	---	501	366	727	990	---	---
19	954	799	637	676	396	---	545	313	346	1040	---	---
20	944	791	650	686	409	---	575	---	253	1020	---	---
21	921	562	649	520	436	547	576	---	371	897	---	---
22	855	436	675	441	452	554	596	---	461	882	---	---
23	803	468	612	452	481	500	587	342	543	881	---	---
24	792	513	426	492	464	200	642	428	620	908	---	---
25	836	561	444	552	480	236	625	512	661	946	---	---
26	895	632	455	585	477	274	578	586	703	952	---	---
27	905	689	481	594	508	316	560	643	729	926	---	---
28	904	584	491	603	535	295	593	678	733	992	---	---
29	---	535	517	624	548	228	637	588	752	1050	---	---
30	---	641	524	615	---	153	659	545	777	1070	---	---
31	---	---	513	597	---	202	---	---	---	1070	---	---
MEAN	834	660	608	621	469	505	508	474	668	933	1040	---

Table 5.--Mean daily specific conductance, in microsiemens per centimeter at 25 degrees Celsius, of water at selected sites--Continued

SITE 5 COAL CREEK NEAR SPIRO

WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT
1	---	---	---	---	---	276	415	618	---	612	296	888
2	---	---	---	---	---	306	456	586	---	718	426	894
3	---	---	---	---	---	328	483	608	---	732	515	905
4	---	---	---	---	---	269	544	612	---	765	630	910
5	---	---	---	---	---	313	511	559	---	660	697	908
6	---	---	---	---	---	336	535	497	---	487	749	927
7	---	---	---	---	---	361	571	490	---	409	731	918
8	---	---	---	---	---	372	557	503	---	603	598	899
9	---	---	---	---	---	370	528	312	292	638	682	885
10	---	---	---	---	---	392	518	162	324	689	775	890
11	---	---	---	---	---	404	548	220	364	775	807	903
12	---	---	---	---	---	445	582	259	319	787	805	935
13	---	---	---	---	---	468	586	294	285	816	833	914
14	---	---	---	---	---	488	618	186	352	838	834	724
15	---	---	---	---	---	478	585	239	406	872	827	756
16	---	---	---	---	---	450	596	306	188	922	845	745
17	---	---	---	---	---	459	637	336	215	920	807	740
18	---	---	---	---	---	441	698	319	292	941	783	754
19	---	---	---	---	605	393	702	298	356	963	779	771
20	---	---	---	---	538	394	700	325	389	985	791	793
21	---	---	---	---	538	436	651	430	507	996	814	824
22	---	---	---	---	518	453	682	---	555	990	840	856
23	---	---	---	---	475	455	720	---	595	960	839	886
24	---	---	---	---	590	484	733	---	641	974	866	911
25	---	---	---	---	581	483	673	---	680	1030	908	926
26	---	---	---	---	627	455	703	---	712	1080	903	949
27	---	---	---	---	729	483	762	---	739	1100	857	983
28	---	---	---	---	396	517	755	---	748	1050	668	1010
29	---	---	---	---	---	513	734	335	758	881	752	1000
30	---	---	---	---	---	385	627	362	769	546	834	1020
31	---	---	---	---	---	385	---	---	---	668	884	---
MEAN	---	---	---	---	560	413	614	385	477	820	754	881

Table 5.--Mean daily specific conductance, in microsiemens per centimeter at 25 degrees Celsius, of water at selected sites--Continued

SITE 6 FOURCHE MALINE NEAR WILBURTON												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT
1	---	---	138	169	62	45	62	---	---	---	---	87
2	---	---	146	147	60	43	---	---	---	---	---	91
3	---	---	151	146	59	47	---	---	---	---	---	89
4	---	---	155	147	59	51	---	---	---	---	---	94
5	---	---	157	148	54	49	---	---	---	---	---	94
6	---	---	159	148	48	52	---	---	---	---	---	96
7	---	---	168	149	52	57	---	---	---	---	---	101
8	---	---	---	150	48	60	---	---	---	---	---	107
9	---	---	---	152	54	59	---	---	---	---	---	106
10	---	---	---	155	65	61	---	---	---	---	---	107
11	---	---	---	151	65	63	---	---	---	---	---	109
12	---	---	---	155	60	63	---	---	---	---	---	122
13	---	---	---	164	64	62	---	---	---	---	---	125
14	---	---	---	153	57	61	---	---	---	---	111	127
15	---	---	157	147	---	56	---	---	---	---	113	130
16	---	163	168	140	---	62	---	---	---	---	117	126
17	---	198	166	140	---	68	---	---	---	---	---	125
18	---	205	169	148	---	70	---	---	---	---	---	128
19	---	118	169	148	---	65	---	---	---	---	---	134
20	---	123	166	---	---	50	---	---	---	---	---	137
21	---	123	160	---	---	55	---	---	---	---	---	144
22	---	119	142	---	---	61	---	---	---	---	129	146
23	---	118	140	90	64	57	---	---	---	---	125	146
24	---	119	140	86	58	58	---	---	---	---	128	145
25	---	126	139	82	46	56	---	---	---	---	129	145
26	---	150	138	82	49	47	---	---	---	---	135	144
27	---	128	140	74	53	49	---	---	---	---	87	144
28	---	122	140	---	48	48	---	---	---	---	100	149
29	---	122	140	---	---	51	---	---	---	---	100	156
30	---	125	142	---	---	62	---	---	---	---	88	160
31	---	---	163	64	---	68	---	---	---	---	89	---
MEAN	---	137	152	133	56	57	62	---	---	---	112	124

Table 5.--Mean daily specific conductance, in microsiemens per centimeter at 25 degrees Celsius, of water at selected sites--Continued

SITE 6 FOURCHE MALINE NEAR WILBURTON

DAY	WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT
1	162	84	137	144	185	153	---	135	---	---	---	---
2	170	87	142	134	198	154	---	112	---	---	---	---
3	180	88	136	141	207	153	193	97	---	---	---	---
4	171	91	133	154	203	151	191	104	---	---	---	---
5	158	92	134	160	203	152	193	115	---	---	---	---
6	156	96	125	164	199	153	204	123	---	---	---	---
7	154	91	133	161	197	174	205	124	---	---	---	---
8	156	93	140	171	187	175	203	119	---	---	---	---
9	155	102	148	177	215	169	185	104	---	---	---	---
10	155	96	156	189	198	---	191	121	---	---	---	---
11	157	97	171	191	160	---	184	148	---	---	---	---
12	163	103	176	189	148	---	147	171	---	---	---	---
13	171	103	165	187	144	---	141	185	---	---	---	---
14	174	103	154	183	143	---	154	192	---	---	---	---
15	178	102	186	176	141	---	187	---	---	---	---	---
16	183	109	204	175	143	---	182	---	---	---	---	---
17	189	108	195	170	125	---	172	---	---	---	---	---
18	201	107	198	167	121	---	166	---	---	---	---	---
19	217	112	203	170	138	---	164	---	---	---	---	---
20	231	109	217	173	155	164	171	---	---	---	---	---
21	242	94	223	181	170	172	177	---	---	---	---	---
22	244	91	229	165	165	188	189	---	---	---	---	---
23	234	92	224	163	156	216	175	---	---	---	---	---
24	218	103	198	172	144	208	173	---	---	---	---	---
25	232	113	205	178	127	234	178	---	---	---	---	---
26	243	120	204	182	122	234	240	---	---	---	---	---
27	249	131	220	187	133	---	181	---	---	---	---	---
28	214	132	218	188	155	---	132	---	---	---	---	---
29	189	128	175	192	158	---	143	---	---	---	---	---
30	155	137	162	198	---	---	154	---	---	---	---	---
31	110	---	151	190	---	---	---	---	---	---	---	---
MEAN	187	104	176	173	163	178	178	132	---	---	---	---

Table 5.--Mean daily specific conductance, in microsiemens per centimeter at 25 degrees Celsius, of water at selected sites--Continued

SITE 7 RED OAK CREEK NEAR RED OAK

WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT
1	---	---	239	184	216	103	110	154	104	---	---	139
2	---	---	230	183	194	115	118	157	115	---	---	144
3	---	---	220	186	201	120	129	153	125	---	---	151
4	---	---	221	185	212	90	136	151	132	---	---	152
5	---	---	227	186	218	110	137	152	117	---	---	153
6	---	---	---	190	228	120	140	161	66	---	---	154
7	---	---	---	190	240	123	149	160	86	---	---	---
8	---	---	---	192	249	121	158	171	87	---	---	---
9	---	---	---	195	252	125	163	113	93	---	---	---
10	---	---	---	197	199	126	168	61	94	---	---	---
11	---	---	---	199	---	130	171	71	---	---	---	---
12	---	---	---	196	---	130	175	88	---	---	---	---
13	---	---	---	199	---	---	184	103	---	---	---	128
14	---	---	---	203	---	---	182	111	---	---	---	115
15	---	---	---	201	---	---	175	114	---	---	---	105
16	---	---	---	201	---	---	174	119	---	---	---	109
17	---	---	---	201	---	---	177	130	---	---	---	106
18	---	219	---	203	---	---	176	141	---	---	---	103
19	---	260	---	204	---	---	180	143	---	---	122	103
20	---	299	---	202	---	---	187	139	---	---	124	104
21	---	300	---	200	---	---	192	142	---	---	128	108
22	---	293	---	197	---	---	176	146	---	---	129	113
23	---	274	---	197	218	158	166	150	---	---	131	116
24	---	249	---	200	213	156	132	88	---	---	134	---
25	---	239	---	210	215	161	138	88	155	---	136	---
26	---	233	---	214	218	166	138	104	154	---	135	---
27	---	223	---	212	226	173	141	113	155	---	127	---
28	---	217	---	214	154	177	146	114	---	---	133	---
29	---	217	---	227	---	129	149	74	---	---	135	---
30	---	224	---	224	---	92	155	73	---	---	138	---
31	---	---	185	222	---	103	---	93	---	---	140	---
MEAN	---	250	220	200	216	130	157	122	114	---	132	124

Table 6.--Mean daily pH (arithmetic), in standard units, of water at selected sites

SITE 5 COAL CREEK NEAR SPIRO

WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT
1	---	---	7.9	---	---	---	7.1	7.6	---	---	---	7.8
2	---	---	7.9	---	---	---	7.2	7.8	---	---	---	7.7
3	---	---	7.9	---	---	---	7.3	8.3	---	---	---	7.7
4	---	---	7.8	7.6	---	---	7.6	---	---	---	---	7.7
5	---	---	---	7.6	---	---	7.7	7.5	---	---	---	7.7
6	---	---	---	7.7	---	---	7.9	7.5	---	---	---	7.8
7	---	---	---	7.7	---	---	8.0	7.5	---	---	---	7.8
8	---	---	---	7.8	---	---	8.1	7.4	---	---	7.4	7.8
9	---	---	---	7.9	---	---	8.1	7.4	---	---	7.5	7.8
10	---	7.9	---	7.9	---	---	---	7.6	---	---	---	7.9
11	---	7.7	8.3	7.9	---	---	---	7.2	---	---	7.5	7.8
12	---	7.6	8.2	7.9	---	---	---	6.9	---	---	7.8	7.8
13	---	7.5	8.1	7.8	---	---	---	7.4	---	---	7.7	7.9
14	---	7.5	8.0	7.7	---	---	---	7.6	---	---	7.7	7.9
15	---	7.6	7.9	7.8	---	---	---	7.7	---	---	8.0	7.9
16	---	7.7	7.9	7.9	---	---	7.9	7.7	---	---	8.0	7.9
17	---	7.5	7.8	7.6	---	---	7.9	7.7	---	---	7.9	7.9
18	---	7.5	7.7	7.3	---	---	7.9	7.7	---	7.3	7.9	7.9
19	---	7.6	7.7	6.8	---	---	7.6	---	---	7.3	7.8	7.8
20	---	7.7	7.7	6.8	---	---	7.4	---	---	7.4	7.8	7.8
21	---	7.7	7.7	6.9	---	---	7.2	---	---	7.4	7.7	7.8
22	---	7.8	7.8	7.2	---	---	---	---	---	7.4	7.8	7.8
23	---	7.8	7.9	7.5	---	---	---	---	---	---	7.8	7.8
24	---	7.8	7.9	7.5	---	---	---	---	---	---	7.8	7.9
25	---	7.8	8.0	---	---	---	---	---	---	---	---	7.9
26	---	7.7	8.0	---	---	---	---	---	---	---	---	7.8
27	---	7.6	8.0	---	---	7.0	---	---	---	---	---	7.8
28	---	7.7	7.9	---	---	7.1	---	---	---	---	7.7	7.9
29	---	7.8	7.6	---	---	7.1	---	---	---	---	7.7	7.8
30	---	7.9	7.7	---	---	7.1	---	---	---	---	7.7	7.8
31	---	---	7.6	---	---	7.1	---	---	---	---	7.7	---
MEAN	---	7.7	7.9	7.6	---	7.1	7.7	7.6	---	7.4	7.8	7.8

Table 6.--Mean daily pH (arithmetic), in standard units, of water at selected sites--Continued

SITE 5 COAL CREEK NEAR SPIRO												
WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT
1	7.8	---	7.9	7.9	8.0	7.8	7.4	7.7	---	7.5	7.7	---
2	7.8	---	7.9	7.9	8.0	7.9	7.5	7.5	7.5	7.5	7.8	---
3	7.9	---	7.9	7.9	8.0	8.0	7.5	7.2	7.5	7.6	7.7	---
4	7.9	---	7.9	7.9	8.0	7.9	7.6	7.4	7.6	7.6	7.8	---
5	7.9	7.7	7.8	8.0	8.0	7.9	7.7	7.4	7.6	7.6	8.1	---
6	7.8	7.7	7.7	8.0	8.0	7.8	7.7	7.4	7.6	7.6	---	---
7	7.8	7.7	7.7	8.0	8.0	7.8	7.6	7.5	7.6	7.6	---	---
8	7.7	7.7	7.7	8.0	7.9	7.8	7.6	7.6	7.7	7.6	---	---
9	7.7	7.7	7.6	8.1	7.7	7.8	7.6	7.6	7.8	7.7	---	---
10	7.8	7.8	7.7	7.9	7.6	7.8	---	7.7	7.7	7.7	---	---
11	7.9	7.8	7.9	7.9	7.5	7.8	---	7.6	7.7	7.7	---	---
12	7.8	7.8	7.8	7.8	7.5	7.9	---	7.6	7.7	7.7	---	---
13	7.8	7.9	7.6	7.8	7.5	7.9	---	7.6	7.7	7.7	---	---
14	7.9	7.9	7.6	7.7	7.5	7.8	8.0	7.7	7.7	7.8	---	---
15	7.9	7.9	7.6	7.7	7.4	---	7.9	7.6	7.7	7.8	---	---
16	7.8	7.9	7.6	7.7	7.5	---	7.8	7.2	7.6	7.8	---	---
17	7.8	7.9	7.7	7.7	7.7	---	7.7	7.5	7.5	7.8	---	---
18	7.7	7.8	7.8	7.8	7.8	---	7.8	7.5	7.5	7.8	---	---
19	7.7	7.8	7.8	7.8	7.9	---	7.8	7.4	7.2	7.7	---	---
20	7.6	7.7	7.8	7.7	7.8	---	7.8	---	7.2	7.7	---	---
21	7.6	7.6	7.7	7.6	7.8	7.7	7.7	---	7.4	7.6	---	---
22	7.6	7.6	7.7	7.6	7.8	7.7	7.7	---	7.4	7.7	---	---
23	7.6	7.6	7.5	7.7	7.8	7.5	7.7	7.5	7.6	7.8	---	---
24	7.7	7.6	7.4	7.8	7.6	7.1	7.6	7.5	7.7	7.8	---	---
25	7.7	7.7	7.4	7.8	7.8	7.3	7.6	7.4	7.7	7.8	---	---
26	7.7	7.7	7.5	7.8	7.9	7.4	7.7	7.4	7.6	7.7	---	---
27	7.7	7.8	7.6	7.8	7.8	7.4	7.8	7.5	7.6	7.7	---	---
28	7.7	7.7	7.6	7.9	7.7	7.4	7.8	7.5	7.6	7.8	---	---
29	---	7.8	7.7	7.9	7.7	7.3	7.8	7.5	7.6	7.8	---	---
30	---	7.9	7.7	8.0	---	7.3	7.7	7.5	7.5	7.7	---	---
31	---	---	7.8	8.0	---	7.4	---	---	---	7.7	---	---
MEAN	7.8	7.8	7.7	7.9	7.8	7.7	7.7	7.5	7.6	7.7	7.8	---

Table 6.--Mean daily pH (arithmetic), in standard units, of water at selected sites--Continued

SITE 5 COAL CREEK NEAR SPIRO

WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT
1	---	---	---	---	---	7.2	7.5	---	---	7.8	7.4	7.7
2	---	---	---	---	---	7.2	7.5	---	---	7.8	7.4	7.7
3	---	---	---	---	---	7.3	7.5	---	---	7.8	7.5	7.7
4	---	---	---	---	---	7.1	7.6	---	---	7.8	7.6	7.7
5	---	---	---	---	---	7.2	7.5	---	---	7.8	7.6	7.7
6	---	---	---	---	---	7.3	7.6	---	---	7.8	7.6	7.7
7	---	---	---	---	---	7.5	7.6	8.1	---	7.8	7.7	7.7
8	---	---	---	---	---	7.5	7.6	7.8	---	7.8	7.7	7.7
9	---	---	---	---	---	7.6	7.6	7.7	7.7	7.8	7.8	7.8
10	---	---	---	---	---	7.7	7.6	7.8	7.4	7.8	7.8	7.8
11	---	---	---	---	---	7.7	7.6	7.7	---	7.8	7.8	7.7
12	---	---	---	---	---	7.7	7.6	7.7	---	7.8	7.8	7.7
13	---	---	---	---	---	7.6	7.6	7.7	---	7.8	7.8	7.7
14	---	---	---	---	---	7.7	7.6	7.8	---	7.7	7.9	7.7
15	---	---	---	---	---	7.7	7.6	7.8	---	7.7	7.8	7.7
16	---	---	---	---	---	7.8	7.5	7.8	---	7.9	7.9	7.8
17	---	---	---	---	---	7.7	7.4	7.7	---	7.9	7.8	7.9
18	---	---	---	---	---	7.6	7.5	7.7	---	7.9	7.8	7.9
19	---	---	---	---	7.2	7.6	7.5	7.8	---	7.9	7.9	7.9
20	---	---	---	---	7.3	7.6	7.5	7.8	---	7.9	7.9	7.9
21	---	---	---	---	7.5	7.6	7.6	7.6	7.4	7.9	7.8	7.8
22	---	---	---	---	7.6	7.7	---	7.3	7.6	7.9	7.9	7.8
23	---	---	---	---	7.5	7.7	---	7.3	7.8	7.9	7.9	7.7
24	---	---	---	---	7.8	7.8	---	6.7	7.7	7.9	7.9	7.8
25	---	---	---	---	7.7	7.6	---	7.1	7.7	7.9	7.9	7.8
26	---	---	---	---	7.6	7.7	---	7.1	7.8	7.9	8.0	7.7
27	---	---	---	---	7.6	7.6	---	7.2	7.8	7.9	7.9	7.7
28	---	---	---	---	7.3	7.6	7.8	7.1	7.8	7.9	7.9	7.6
29	---	---	---	---	---	7.5	---	6.8	7.8	7.9	7.9	7.7
30	---	---	---	---	---	7.4	---	7.0	7.8	7.8	7.8	7.7
31	---	---	---	---	---	7.4	---	---	---	7.8	7.8	---
MEAN	---	---	---	---	7.5	7.6	7.6	7.5	7.7	7.8	7.8	7.8

Table 6.--Mean daily pH (arithmetic), in standard units, of water at selected sites--Continued

SITE 6 FOURCHE MALINE NEAR WILBURTON

WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT
1	---	---	---	6.9	7.0	6.5	6.7	---	---	---	---	6.8
2	---	---	---	6.9	7.0	6.6	6.6	---	---	---	---	6.8
3	---	---	---	6.9	7.0	6.7	---	---	---	---	---	6.8
4	---	---	---	6.9	7.0	6.6	---	---	---	---	---	6.8
5	---	---	---	6.9	7.1	6.5	---	---	---	---	---	6.8
6	---	---	---	6.9	7.3	6.6	---	---	---	---	---	6.8
7	---	---	---	6.9	7.4	6.8	---	---	---	---	---	6.9
8	---	---	---	6.9	7.4	7.0	---	---	---	---	---	7.1
9	---	---	---	7.0	7.4	7.0	---	---	---	---	---	7.1
10	---	---	---	7.0	7.3	7.0	---	---	---	---	---	7.0
11	---	---	---	7.0	7.3	7.0	---	---	---	---	---	6.9
12	---	---	---	7.0	7.3	7.0	---	---	---	---	---	7.0
13	---	---	---	7.0	7.2	7.0	---	---	---	---	6.8	7.0
14	---	---	---	7.0	7.3	7.0	---	---	---	---	6.8	7.0
15	---	---	---	6.9	7.2	6.9	---	---	---	---	---	7.0
16	---	---	---	7.0	7.2	7.0	---	---	---	---	6.7	7.0
17	---	---	---	6.9	7.2	7.0	---	---	---	---	---	7.0
18	---	---	---	7.0	7.2	6.9	---	---	---	---	---	6.9
19	---	---	---	6.9	7.1	6.8	---	---	---	---	---	6.8
20	---	---	---	---	7.1	6.6	---	---	---	---	---	6.8
21	---	---	---	---	6.9	6.6	---	---	---	---	---	6.8
22	---	---	6.9	---	6.9	6.7	---	---	---	---	6.8	6.8
23	---	---	6.9	6.9	6.9	6.7	---	---	---	---	6.8	6.8
24	---	---	6.9	6.9	6.9	6.5	---	---	---	---	6.8	6.9
25	---	---	6.9	6.9	6.8	6.5	---	---	---	---	6.8	7.0
26	---	---	6.9	6.9	6.7	6.6	---	---	---	---	6.8	6.9
27	---	---	6.9	7.0	6.6	6.7	---	---	---	---	6.6	7.1
28	---	---	6.9	7.0	6.6	6.5	---	---	---	---	6.8	7.1
29	---	---	6.9	7.0	---	6.7	---	---	---	---	6.8	7.0
30	---	---	6.9	7.0	---	6.9	---	---	---	---	6.8	6.9
31	---	---	6.9	7.0	---	6.7	---	---	---	---	6.8	---
MEAN	---	---	6.9	7.0	7.1	6.8	6.7	---	---	---	6.8	6.9

Table 6.--Mean daily pH (arithmetic), in standard units, of water at selected sites--Continued

SITE 6 FOURCHE MALINE NEAR WILBURTON

WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT
1	6.9	6.7	7.2	7.2	7.2	7.1	---	6.7	---	---	---	---
2	6.8	6.7	7.1	7.2	7.2	7.2	---	6.5	---	---	---	---
3	6.8	6.8	7.1	7.2	7.2	7.1	7.2	6.4	---	---	---	---
4	6.8	6.8	7.1	7.3	7.2	7.0	7.3	6.5	---	---	---	---
5	6.8	6.8	6.9	7.3	7.1	7.0	7.2	6.6	---	---	---	---
6	6.6	7.0	6.9	7.2	7.1	7.0	7.2	6.7	---	---	---	---
7	6.6	6.9	6.9	7.2	7.1	6.9	7.0	6.6	---	---	---	---
8	6.6	6.8	7.1	7.2	6.9	6.9	7.1	6.7	---	---	---	---
9	6.7	6.8	7.1	7.2	7.0	7.1	7.1	6.7	---	---	---	---
10	6.7	6.8	7.1	7.2	7.0	---	7.0	6.7	---	---	---	---
11	6.7	6.8	7.0	7.1	6.9	---	6.9	6.7	---	---	---	---
12	6.6	6.8	7.0	7.2	6.9	---	7.1	6.7	---	---	---	---
13	6.6	6.8	7.1	7.2	6.9	---	7.1	6.7	---	---	---	---
14	6.6	6.8	7.1	7.2	6.9	---	7.1	6.8	---	---	---	---
15	6.6	6.8	7.2	7.1	6.9	---	7.1	---	---	---	---	---
16	6.5	6.8	7.2	7.1	6.9	---	7.0	---	---	---	---	---
17	6.5	6.9	7.3	7.1	7.0	---	6.8	---	---	---	---	---
18	6.4	6.9	7.3	7.2	6.9	---	6.9	---	---	---	---	---
19	6.5	6.8	7.3	7.1	7.0	---	6.9	---	---	---	---	---
20	6.5	6.8	7.2	7.0	6.9	7.1	6.9	---	---	---	---	---
21	6.6	6.8	7.2	7.0	6.8	7.1	6.9	---	---	---	---	---
22	6.9	6.9	7.2	7.1	6.8	7.1	6.9	---	---	---	---	---
23	6.9	7.0	7.1	7.2	6.8	7.0	6.8	---	---	---	---	---
24	6.8	7.1	7.0	7.2	6.7	7.1	6.8	---	---	---	---	---
25	6.7	7.1	7.1	7.2	6.9	7.2	6.8	---	---	---	---	---
26	6.7	7.1	7.1	7.2	6.9	7.1	7.2	---	---	---	---	---
27	6.6	7.1	7.2	7.2	6.9	---	7.1	---	---	---	---	---
28	6.7	7.1	7.1	7.1	6.9	---	6.9	---	---	---	---	---
29	6.8	7.1	7.1	7.2	6.9	---	6.8	---	---	---	---	---
30	6.7	7.2	7.1	7.2	---	---	6.9	---	---	---	---	---
31	6.8	---	7.1	7.2	---	---	---	---	---	---	---	---
MEAN	6.7	6.9	7.1	7.2	7.0	7.1	7.0	6.6	---	---	---	---

Table 6.--Mean daily pH (arithmetic), in standard units, of water at selected sites--Continued

SITE 7 RED OAK CREEK NEAR RED OAK

WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT
1	---	---	7.4	7.7	7.3	7.2	7.4	7.2	7.0	---	---	7.0
2	---	---	7.3	7.5	7.5	7.2	7.5	7.2	7.1	---	---	7.1
3	---	---	7.4	7.3	7.5	7.1	7.5	7.2	7.1	---	---	7.1
4	---	---	7.4	7.3	7.5	7.1	7.6	7.1	7.2	---	---	7.1
5	---	---	7.4	7.2	7.5	7.1	7.6	7.1	7.1	---	---	7.1
6	---	---	---	7.2	7.5	7.3	7.6	7.2	6.3	---	---	7.1
7	---	---	---	7.2	7.4	7.4	7.6	7.3	6.3	---	---	---
8	---	---	---	7.2	7.3	7.6	7.6	7.3	6.8	---	---	---
9	---	---	---	7.1	7.3	7.6	7.4	7.3	6.9	---	---	---
10	---	---	---	7.1	7.2	7.7	7.4	6.9	---	---	---	---
11	---	---	---	7.2	---	7.8	7.3	7.0	---	---	---	---
12	---	---	---	7.2	---	7.8	7.3	7.2	---	---	---	---
13	---	---	---	7.2	---	---	7.3	7.2	---	---	---	---
14	---	---	---	7.2	---	---	7.3	7.3	---	---	---	7.0
15	---	---	---	7.3	---	---	7.2	7.4	---	---	---	6.9
16	---	---	---	7.1	---	---	7.2	7.4	---	---	---	6.8
17	---	---	---	7.1	---	---	7.3	7.4	---	---	---	6.9
18	---	7.1	---	7.1	---	---	7.3	7.3	---	---	---	6.9
19	---	7.2	---	7.1	---	---	7.2	7.3	---	---	---	6.9
20	---	7.2	---	7.1	---	---	7.2	7.3	---	---	---	6.9
21	---	7.2	---	7.1	---	---	7.2	7.3	---	---	---	6.9
22	---	7.2	---	7.1	---	---	7.2	7.4	---	---	---	6.9
23	---	7.1	---	7.2	7.5	7.6	7.2	7.4	---	---	---	7.0
24	---	7.2	---	7.2	7.5	7.5	7.1	7.2	---	---	---	---
25	---	7.2	---	7.2	7.6	7.5	7.1	7.1	7.3	---	---	---
26	---	7.1	---	7.2	7.6	7.5	7.2	7.3	7.3	---	---	---
27	---	7.2	---	7.2	7.5	7.5	7.2	7.2	7.3	---	---	---
28	---	7.2	---	7.2	7.3	7.4	7.2	7.2	7.3	---	---	---
29	---	7.3	---	7.3	---	7.3	7.1	7.0	7.3	---	---	---
30	---	7.4	---	7.3	---	7.2	7.2	6.7	7.2	---	---	---
31	---	---	8.0	7.3	---	7.3	---	6.8	---	---	---	---
MEAN	---	7.2	7.5	7.2	7.4	7.4	7.3	7.2	7.0	---	---	7.0

Table 7.--Mean daily water temperature, in degrees Celsius, at selected sites

SITE 5 COAL CREEK NEAR SPIRO

WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT
1	---	---	10.0	---	---	---	16.0	18.5	---	---	---	26.5
2	---	---	11.5	---	---	---	13.5	17.5	---	---	---	27.0
3	---	---	9.5	---	---	---	12.5	18.0	---	---	---	27.0
4	---	---	6.5	.5	---	---	10.0	---	---	---	---	28.0
5	---	---	---	.5	---	---	12.0	17.0	---	---	---	27.5
6	---	---	---	.5	---	---	15.5	18.5	---	---	---	27.5
7	---	---	---	.5	---	---	16.5	22.0	---	---	---	27.0
8	---	---	---	.5	---	---	17.0	24.0	---	---	30.5	25.5
9	---	---	---	.5	---	---	16.0	24.5	---	---	28.5	24.0
10	---	13.5	---	1.0	---	---	15.5	26.0	---	---	28.5	24.0
11	---	14.0	4.5	1.0	---	---	16.5	20.0	---	---	29.0	24.5
12	---	14.5	4.5	1.0	---	---	18.5	21.0	---	---	26.0	24.0
13	---	16.5	5.0	.5	---	---	17.0	23.0	---	---	26.5	23.5
14	---	18.0	5.0	.5	---	---	17.5	24.5	---	---	27.0	22.0
15	---	17.0	5.5	.5	---	---	19.0	24.5	---	---	28.0	20.5
16	---	17.5	7.0	1.0	---	---	20.5	26.0	---	---	25.5	20.0
17	---	14.5	6.0	1.5	---	---	21.5	23.0	---	---	26.5	20.5
18	---	13.0	7.0	4.5	---	---	20.0	---	---	27.5	27.0	22.0
19	---	13.0	10.0	6.5	---	---	20.0	---	---	27.5	27.5	22.5
20	---	13.5	12.0	9.5	---	---	20.5	---	---	28.5	26.5	22.5
21	---	13.5	8.5	6.0	---	---	20.0	---	---	28.5	27.0	22.0
22	---	13.0	6.5	4.5	---	---	18.5	---	---	29.0	26.5	22.0
23	---	14.0	6.5	4.5	---	---	17.0	---	---	---	26.5	21.5
24	---	14.0	5.5	3.5	---	---	18.5	---	---	---	26.0	21.5
25	---	13.0	5.0	---	---	---	20.5	---	---	---	---	22.0
26	---	13.5	5.5	---	---	---	19.5	---	---	---	---	22.5
27	---	12.0	4.0	---	---	11.5	16.5	---	---	---	---	22.0
28	---	10.0	5.5	---	---	13.5	15.5	---	---	---	27.0	22.0
29	---	10.0	6.5	---	---	15.5	16.5	---	---	---	27.5	24.0
30	---	10.0	5.0	---	---	16.5	17.5	---	---	---	28.0	24.0
31	---	---	4.0	---	---	15.5	---	---	---	---	27.5	---
MEAN	---	13.5	6.5	2.5	---	14.5	17.0	22.0	---	28.0	27.5	23.5

Table 7.--Mean daily water temperature, in degrees Celsius, at selected sites--Continued

SITE 5 COAL CREEK NEAR SPIRO

WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT
1	24.5	---	4.5	6.0	1.0	5.5	13.5	18.0	---	30.5	28.5	---
2	22.0	---	5.0	6.0	1.5	4.0	16.0	17.5	26.0	31.0	28.5	---
3	21.0	---	6.0	5.0	2.5	4.5	17.0	17.5	26.0	30.5	28.5	---
4	19.5	---	7.0	5.5	4.5	8.5	15.5	19.5	26.5	30.5	28.0	---
5	18.0	13.5	7.0	5.5	4.5	8.0	15.5	20.5	26.5	31.0	29.0	---
6	19.0	12.5	8.0	6.0	4.5	8.5	17.5	21.5	27.5	30.5	---	---
7	19.0	11.0	7.5	5.5	3.0	11.5	19.0	21.5	28.0	30.5	---	---
8	21.5	12.0	6.5	4.0	1.5	11.0	17.0	19.5	26.0	30.0	---	---
9	20.5	12.5	7.0	4.0	1.0	10.5	15.0	18.5	25.0	29.5	---	---
10	16.0	11.0	8.5	5.5	1.5	11.5	---	20.0	24.5	30.5	---	---
11	17.0	9.5	11.0	7.5	2.0	10.5	---	23.0	25.0	30.5	---	---
12	19.5	9.5	8.5	6.5	3.5	9.0	---	24.0	25.0	30.5	---	---
13	19.0	9.5	6.5	6.0	3.0	10.0	---	23.0	25.5	29.5	---	---
14	17.0	9.0	6.0	7.0	5.5	8.5	11.0	22.0	25.5	29.5	---	---
15	17.0	10.0	5.5	8.5	7.5	---	12.5	20.0	26.0	29.5	---	---
16	18.0	10.5	5.0	10.0	4.5	---	15.5	18.5	26.5	30.0	---	---
17	20.0	11.5	2.5	9.0	2.5	---	17.0	21.5	24.0	30.5	---	---
18	21.0	13.0	3.0	8.0	2.5	---	16.5	21.5	25.0	30.0	---	---
19	21.5	15.0	4.0	9.0	5.0	---	18.0	20.5	25.0	30.5	---	---
20	22.5	16.0	6.5	9.5	7.5	---	19.0	---	25.5	29.5	---	---
21	22.5	16.0	8.5	9.0	10.5	13.5	20.0	---	26.0	28.5	---	---
22	19.5	12.0	11.0	8.0	10.5	12.5	20.5	---	26.0	28.0	---	---
23	16.0	9.5	10.5	6.0	10.0	11.5	20.5	22.5	27.0	26.5	---	---
24	15.0	8.5	8.5	6.5	8.0	8.0	20.0	23.0	29.5	26.5	---	---
25	15.5	8.5	6.5	7.5	6.5	8.0	18.5	25.5	30.5	27.0	---	---
26	15.5	9.5	6.5	7.0	6.0	9.5	15.5	27.5	31.0	27.0	---	---
27	17.0	10.5	8.0	5.5	7.5	11.0	14.5	27.0	31.5	27.0	---	---
28	18.5	8.0	8.5	3.5	10.5	12.5	16.0	26.0	31.0	27.5	---	---
29	---	5.5	8.0	2.5	9.0	12.0	18.0	24.5	31.0	28.5	---	---
30	---	4.5	7.5	2.5	---	9.0	18.0	24.5	30.5	29.0	---	---
31	---	---	6.5	1.5	---	10.5	---	---	---	29.0	---	---
MEAN	19.0	10.5	7.0	6.5	5.0	9.5	17.0	22.0	27.0	29.5	28.5	---

Table 7.--Mean daily water temperature, in degrees Celsius, at selected sites--Continued

SITE 5 COAL CREEK NEAR SPIRO												
WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT
1	---	---	---	---	---	13.0	17.0	23.5	---	28.0	25.5	27.0
2	---	---	---	---	---	12.5	17.5	22.0	---	29.0	27.5	26.0
3	---	---	---	---	---	11.5	19.0	21.0	---	29.0	28.5	26.0
4	---	---	---	---	---	12.0	18.5	20.5	---	29.0	29.5	26.5
5	---	---	---	---	---	13.0	17.5	20.0	---	27.5	30.0	26.0
6	---	---	---	---	---	11.5	16.0	19.0	---	27.0	30.5	26.5
7	---	---	---	---	---	11.0	17.0	19.5	---	27.5	29.5	25.5
8	---	---	---	---	---	9.5	18.0	17.5	---	28.5	27.5	25.0
9	---	---	---	---	---	9.0	20.0	17.5	29.0	29.0	27.5	24.0
10	---	---	---	---	---	9.0	21.0	16.5	28.5	29.5	28.0	23.5
11	---	---	---	---	---	10.5	21.0	17.0	28.5	30.5	27.5	23.5
12	---	---	---	---	---	11.0	22.0	18.5	26.0	30.0	27.0	25.0
13	---	---	---	---	---	12.5	22.5	19.5	27.0	30.0	27.5	25.0
14	---	---	---	---	---	13.5	21.0	18.0	27.0	30.0	28.5	25.0
15	---	---	---	---	---	14.0	19.0	17.5	27.0	30.5	29.5	25.5
16	---	---	---	---	---	13.0	18.0	17.5	24.0	30.5	29.5	23.5
17	---	---	---	---	---	13.5	20.0	18.5	23.5	30.0	27.5	20.5
18	---	---	---	---	---	12.5	21.5	21.5	25.5	30.0	26.5	19.0
19	---	---	---	---	13.0	10.5	22.0	19.0	27.0	30.0	26.5	18.5
20	---	---	---	---	12.5	11.5	21.5	16.5	28.0	30.5	25.5	18.5
21	---	---	---	---	14.5	13.5	19.5	21.0	28.5	30.0	26.0	20.0
22	---	---	---	---	13.0	13.5	20.5	21.0	28.5	28.5	26.0	21.0
23	---	---	---	---	12.0	13.0	20.5	22.5	29.0	29.5	26.5	22.5
24	---	---	---	---	13.5	13.5	21.0	21.5	29.5	30.0	27.5	23.0
25	---	---	---	---	12.5	14.5	22.0	21.5	29.5	30.0	27.5	23.5
26	---	---	---	---	14.5	14.5	22.0	21.5	29.5	30.0	27.0	24.0
27	---	---	---	---	16.0	16.0	22.5	22.0	29.0	29.5	26.5	25.0
28	---	---	---	---	15.5	16.5	22.5	23.0	28.5	28.5	26.5	25.0
29	---	---	---	---	---	16.5	23.5	20.5	28.5	27.0	26.5	24.5
30	---	---	---	---	---	16.5	24.0	20.0	28.5	25.0	27.0	24.5
31	---	---	---	---	---	18.0	---	---	---	26.0	28.0	---
MEAN	---	---	---	---	13.5	13.0	20.5	20.0	27.5	29.0	27.5	24.0

Table 7.--Mean daily water temperature, in degrees Celsius, at selected sites--Continued

SITE 6 FOURCHE MALINE NEAR WILBURTON												
WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT
1	---	---	8.5	2.0	1.0	14.0	18.0	---	---	---	---	25.0
2	---	---	11.5	2.0	1.5	11.5	14.5	---	---	---	---	25.5
3	---	---	9.5	2.0	1.5	12.0	---	---	---	---	---	25.5
4	---	---	6.5	2.0	2.0	11.5	---	---	---	---	---	26.0
5	---	---	7.0	2.0	2.0	12.0	---	---	---	---	---	26.5
6	---	---	7.0	2.0	1.5	15.0	---	---	---	---	---	26.0
7	---	---	5.5	2.0	2.0	14.0	---	---	---	---	---	25.5
8	---	---	---	2.0	1.5	9.5	---	---	---	---	---	24.0
9	---	---	---	2.0	2.0	10.0	---	---	---	---	---	23.0
10	---	---	---	2.0	1.5	10.0	---	---	---	---	---	22.5
11	---	---	---	2.5	2.5	10.5	---	---	---	---	---	22.5
12	---	---	---	2.5	3.0	11.0	---	---	---	---	---	22.0
13	---	---	---	2.5	3.0	13.0	---	---	---	---	---	22.0
14	---	---	---	2.0	4.5	13.0	---	---	---	---	25.0	21.0
15	---	---	5.0	1.5	---	13.0	---	---	---	---	25.5	20.0
16	---	10.5	6.0	2.0	---	11.5	---	---	---	---	26.5	19.0
17	---	10.0	5.0	3.5	---	13.0	---	---	---	---	---	18.5
18	---	9.5	6.0	4.0	---	14.0	---	---	---	---	---	19.5
19	---	10.5	8.5	5.0	---	14.5	---	---	---	---	---	20.5
20	---	10.0	10.5	---	---	14.5	---	---	---	---	---	20.5
21	---	9.5	8.0	---	---	14.5	---	---	---	---	---	20.5
22	---	9.5	6.5	---	8.0	13.5	---	---	---	---	25.5	20.5
23	---	11.0	6.5	4.0	8.0	11.5	---	---	---	---	25.0	20.0
24	---	12.0	6.5	3.0	7.0	10.0	---	---	---	---	24.5	19.5
25	---	11.5	5.5	3.0	7.0	13.0	---	---	---	---	24.0	19.0
26	---	12.5	5.0	3.5	9.5	13.5	---	---	---	---	24.5	19.0
27	---	10.0	4.5	3.0	11.5	16.0	---	---	---	---	23.0	19.5
28	---	8.5	5.0	3.5	11.5	18.0	---	---	---	---	24.5	20.0
29	---	8.5	6.0	4.0	---	17.5	---	---	---	---	25.0	21.0
30	---	8.0	5.5	4.5	---	17.5	---	---	---	---	25.5	21.0
31	---	---	3.5	1.5	---	17.5	---	---	---	---	25.5	---
MEAN	---	10.0	6.5	2.5	4.5	13.0	16.5	---	---	---	25.0	22.0

Table 7.--Mean daily water temperature, in degrees Celsius, at selected sites--Continued

SITE 6 FOURCHE MALINE NEAR WILBURTON

WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT
1	21.0	15.0	4.0	5.5	1.5	5.0	---	16.0	---	---	---	---
2	19.5	14.0	4.0	5.5	2.5	4.0	---	16.5	---	---	---	---
3	18.5	13.0	4.0	5.5	3.5	4.5	16.5	16.5	---	---	---	---
4	17.5	12.0	5.0	4.5	3.5	8.0	15.5	17.5	---	---	---	---
5	16.0	12.0	6.0	5.0	4.5	7.5	15.5	18.0	---	---	---	---
6	16.0	11.5	6.5	6.5	5.5	7.5	16.5	19.0	---	---	---	---
7	16.5	10.5	6.0	5.0	3.5	11.0	18.0	20.0	---	---	---	---
8	18.5	11.0	6.0	4.5	2.0	11.0	17.0	19.5	---	---	---	---
9	18.0	11.5	5.5	4.5	2.5	10.0	16.0	19.0	---	---	---	---
10	15.0	9.5	7.0	6.0	1.5	---	16.5	19.5	---	---	---	---
11	15.0	8.5	9.5	7.5	1.5	---	17.0	21.0	---	---	---	---
12	15.5	8.0	7.5	6.0	1.5	---	14.5	22.0	---	---	---	---
13	16.0	8.5	5.5	5.5	2.5	---	12.0	22.5	---	---	---	---
14	15.0	8.0	5.0	6.0	4.5	---	12.0	21.5	---	---	---	---
15	15.5	8.5	5.0	8.0	5.5	---	13.5	---	---	---	---	---
16	15.5	8.5	4.5	9.5	4.0	---	16.0	---	---	---	---	---
17	17.0	9.0	2.5	8.0	3.5	---	17.5	---	---	---	---	---
18	17.5	11.0	3.0	7.5	3.5	---	17.5	---	---	---	---	---
19	19.0	13.0	3.5	8.0	6.0	---	17.5	---	---	---	---	---
20	20.5	14.5	5.5	8.0	7.5	14.0	18.5	---	---	---	---	---
21	21.5	15.5	7.0	8.0	9.5	12.5	19.0	---	---	---	---	---
22	19.0	11.5	9.0	7.0	9.5	12.5	19.5	---	---	---	---	---
23	15.5	10.0	9.5	6.0	9.0	13.0	19.5	---	---	---	---	---
24	14.5	8.5	8.0	6.0	8.0	11.0	19.5	---	---	---	---	---
25	14.5	8.0	7.0	6.5	7.0	10.5	19.0	---	---	---	---	---
26	15.0	8.0	7.0	6.0	6.5	10.0	16.5	---	---	---	---	---
27	16.0	9.0	8.0	4.5	7.0	---	15.5	---	---	---	---	---
28	17.0	7.5	8.5	3.5	9.0	---	16.0	---	---	---	---	---
29	16.5	5.5	8.0	3.0	8.5	---	16.0	---	---	---	---	---
30	17.0	4.0	7.5	3.0	---	---	16.0	---	---	---	---	---
31	16.0	---	6.5	2.0	---	---	---	---	---	---	---	---
MEAN	17.0	10.0	6.0	6.0	5.0	9.5	16.5	19.0	---	---	---	---

Table 7.--Mean daily water temperature, in degrees Celsius, at selected sites--Continued

SITE 7 RED OAK CREEK NEAR RED OAK												
WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT
1	---	---	12.0	5.0	6.0	12.5	18.0	24.0	27.5	---	---	---
2	---	---	10.5	5.0	5.0	12.0	18.0	22.0	27.5	---	---	25.0
3	---	---	9.0	5.0	5.0	12.0	20.0	20.5	27.5	---	---	25.0
4	---	---	10.0	4.5	5.0	14.0	20.0	20.0	28.0	---	---	25.5
5	---	---	11.5	4.5	5.0	15.0	17.0	20.0	27.0	---	---	25.0
6	---	---	---	5.0	5.0	15.0	15.5	19.0	25.5	---	---	25.0
7	---	---	---	5.0	5.5	14.5	17.0	18.5	25.0	---	---	---
8	---	---	---	5.0	5.5	13.0	18.5	18.0	24.5	---	---	---
9	---	---	---	5.0	5.0	13.0	20.0	17.5	---	---	---	---
10	---	---	---	5.0	5.0	12.5	22.0	---	---	---	---	---
11	---	---	---	5.0	---	13.0	22.0	19.0	---	---	---	---
12	---	---	---	4.5	---	13.0	23.0	20.5	---	---	---	---
13	---	---	---	4.5	---	---	25.0	22.0	---	---	---	24.0
14	---	---	---	5.0	---	---	23.0	21.5	---	---	---	23.0
15	---	---	---	5.0	---	---	19.0	20.0	---	---	---	23.5
16	---	---	---	5.0	---	---	18.5	20.0	---	---	---	23.0
17	---	---	---	4.5	---	---	20.0	21.5	---	---	---	20.5
18	---	6.0	---	5.0	---	---	21.0	26.5	---	---	---	18.5
19	---	5.0	---	5.0	---	---	22.0	23.0	---	---	---	18.0
20	---	4.5	---	5.0	---	---	23.0	20.0	---	---	---	17.5
21	---	5.5	---	5.5	---	---	21.0	20.5	---	---	---	18.5
22	---	5.5	---	5.5	---	---	21.5	22.0	---	---	---	19.5
23	---	7.0	---	5.5	10.5	15.0	21.5	23.0	---	---	---	20.5
24	---	8.5	---	6.0	10.0	13.5	21.5	23.0	28.5	---	---	---
25	---	7.5	---	7.0	10.5	14.5	22.5	24.0	---	---	---	---
26	---	7.0	---	7.0	11.5	14.5	22.5	24.5	28.0	---	---	---
27	---	6.5	---	7.0	13.0	16.5	23.0	25.5	27.5	---	---	---
28	---	6.5	---	6.5	13.0	17.0	23.0	25.5	27.0	---	---	---
29	---	7.0	---	7.5	---	16.5	23.5	24.0	27.0	---	---	---
30	---	9.0	---	7.0	---	17.5	24.5	27.5	26.5	---	---	---
31	---	---	5.5	6.5	---	19.0	---	28.5	---	---	---	---
MEAN	---	6.5	10.0	5.5	7.5	14.5	21.0	22.0	27.0	---	---	22.0

Table 8.--Mean daily dissolved oxygen, in milligrams per liter, of water at selected sites

SITE 5 COAL CREEK NEAR SPIRO

WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT
1	---	---	12.9	---	---	---	---	8.3	---	---	---	6.7
2	---	---	12.3	---	---	---	---	7.8	---	---	---	6.7
3	---	---	11.0	---	---	---	---	---	---	---	---	6.7
4	---	---	11.4	---	---	---	10.2	---	---	---	---	6.4
5	---	---	---	---	---	---	10.0	8.7	---	---	---	6.4
6	---	---	---	---	---	---	9.2	7.9	---	---	---	6.4
7	---	---	---	---	---	---	8.9	---	---	---	---	6.7
8	---	---	---	---	---	---	8.4	---	---	---	6.9	7.1
9	---	---	---	---	---	---	9.4	---	---	---	6.5	7.4
10	---	9.4	---	---	---	---	9.4	---	---	---	6.9	7.5
11	---	9.0	---	---	---	---	9.2	---	---	---	6.8	7.4
12	---	8.7	---	---	---	---	9.2	---	---	---	6.8	7.3
13	---	7.7	---	---	---	---	9.1	---	---	---	6.4	7.4
14	---	7.1	---	---	---	---	8.9	---	---	---	5.9	7.7
15	---	8.5	---	---	---	---	8.3	---	---	---	---	7.9
16	---	9.7	---	---	---	---	7.9	---	---	---	7.1	8.0
17	---	10.3	---	---	---	---	8.3	---	---	---	7.1	8.2
18	---	10.5	---	---	---	---	8.0	---	---	5.1	7.2	7.8
19	---	10.6	---	---	---	---	8.5	---	---	6.4	7.1	7.5
20	---	10.4	---	---	---	---	7.9	---	---	6.8	7.1	7.2
21	---	10.7	---	---	---	---	8.4	---	---	7.0	6.9	7.6
22	---	10.8	---	---	---	---	8.5	---	---	7.0	6.8	7.8
23	---	10.7	---	---	---	---	8.6	---	---	---	6.7	8.0
24	---	10.6	---	---	---	---	8.7	---	---	---	6.6	7.9
25	---	10.9	---	---	---	---	8.4	---	---	---	---	7.9
26	---	10.5	---	---	---	---	8.5	---	---	---	---	7.9
27	---	8.8	---	---	---	10.5	8.5	---	---	---	---	7.9
28	---	9.3	---	---	---	9.9	9.2	---	---	---	6.6	8.0
29	---	9.1	---	---	---	9.2	9.1	---	---	---	6.3	7.8
30	---	10.5	---	---	---	---	8.8	---	---	---	6.3	7.9
31	---	---	---	---	---	---	---	---	---	---	6.2	---
MEAN	---	9.7	11.9	---	---	9.9	8.8	8.2	---	6.7	6.7	7.4

Table 8.--Mean daily dissolved oxygen, in milligrams per liter, of water at selected sites--Continued

SITE 5 COAL CREEK NEAR SPIRO
WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT
1	7.6	---	11.0	13.0	12.6	11.5	9.6	7.7	---	5.2	5.9	---
2	7.9	---	11.0	12.6	12.7	12.4	9.0	7.8	6.4	5.3	5.9	---
3	8.6	---	11.1	12.3	12.7	12.6	8.9	8.4	6.3	5.5	6.2	---
4	9.1	---	10.8	12.8	12.9	11.7	9.3	8.2	6.3	5.7	6.3	---
5	9.4	8.0	10.5	12.9	12.9	11.3	9.4	7.6	6.2	6.1	6.2	---
6	8.9	8.3	10.3	12.5	12.9	11.4	8.9	7.1	6.2	6.2	---	---
7	8.7	8.6	10.6	12.4	12.7	10.5	8.5	6.9	6.0	5.6	---	---
8	8.1	8.3	11.4	13.0	12.6	10.0	8.6	7.6	6.1	5.7	---	---
9	8.7	8.2	11.5	13.2	13.1	10.3	8.6	8.1	6.6	5.7	---	---
10	8.7	9.1	11.4	12.5	13.2	10.2	---	7.9	6.6	5.9	---	---
11	8.5	10.0	9.9	11.9	13.2	10.0	---	7.4	6.5	6.2	---	---
12	7.8	10.1	10.4	12.2	13.3	10.6	---	6.8	6.5	5.8	---	---
13	7.7	10.0	12.0	12.4	13.3	11.0	---	6.9	6.5	5.5	---	---
14	8.1	10.1	12.5	12.6	12.7	10.5	10.4	7.4	6.5	6.8	---	---
15	8.1	10.2	13.5	11.6	11.2	---	10.0	7.3	6.4	7.4	---	---
16	7.7	9.7	14.0	11.1	12.1	---	9.2	8.3	6.1	6.8	---	---
17	7.2	9.5	15.0	11.3	13.1	---	8.4	7.9	5.8	6.5	---	---
18	7.0	9.0	15.0	11.5	13.2	---	8.7	7.8	6.3	6.4	---	---
19	6.8	8.4	14.7	11.0	12.7	---	8.7	8.1	6.3	6.6	---	---
20	6.5	7.8	14.2	10.3	11.8	---	8.5	---	6.2	6.0	---	---
21	6.1	7.6	13.3	10.1	10.4	9.7	8.2	---	6.0	5.5	---	---
22	6.7	8.7	12.4	10.4	9.9	9.7	8.1	---	5.9	5.6	---	---
23	7.4	9.5	11.7	10.9	10.0	9.3	8.1	8.4	6.0	6.0	---	---
24	7.9	9.8	12.6	11.0	10.3	10.6	7.7	7.7	5.5	6.6	---	---
25	7.9	10.0	13.3	10.8	11.4	10.9	7.5	7.0	5.3	6.6	---	---
26	7.9	9.7	13.0	10.5	12.0	10.8	8.4	6.7	5.2	6.1	---	---
27	7.7	9.3	12.9	10.7	12.0	10.3	9.6	6.6	5.2	5.3	---	---
28	7.1	9.8	12.6	11.2	11.1	10.6	9.3	6.7	5.1	5.3	---	---
29	---	10.7	12.7	11.8	10.4	10.3	8.3	7.0	5.2	5.4	---	---
30	---	10.9	12.6	11.9	---	10.2	7.7	7.0	5.3	5.4	---	---
31	---	---	13.0	12.3	---	10.3	---	---	---	5.5	---	---
MEAN	7.8	9.3	12.3	11.8	12.2	10.7	8.8	7.5	6.0	5.9	6.1	---

Table 8.--Mean daily dissolved oxygen, in milligrams per liter, of water at selected sites--Continued

SITE 5 COAL CREEK NEAR SPIRO

WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP
1	---	---	---	---	---	9.6	8.4	6.0	---	6.2	4.7	5.
2	---	---	---	---	---	9.8	8.2	6.2	---	5.9	4.2	5.
3	---	---	---	---	---	9.9	7.8	6.2	---	6.0	4.3	5.
4	---	---	---	---	---	10.0	7.8	6.1	---	5.7	4.8	5.
5	---	---	---	---	---	9.8	8.2	6.5	---	5.7	5.3	5.
6	---	---	---	---	---	10.4	8.6	7.0	---	6.1	5.5	5.
7	---	---	---	---	---	10.6	8.8	7.5	---	6.0	5.6	5.
8	---	---	---	---	---	11.2	8.1	7.2	---	6.2	5.9	5.
9	---	---	---	---	---	11.6	7.3	8.1	6.1	6.3	5.9	5.
10	---	---	---	---	---	11.4	6.8	8.8	6.1	5.5	5.8	5.
11	---	---	---	---	---	10.4	6.3	9.1	6.0	5.3	5.5	4.
12	---	---	---	---	---	10.0	5.8	8.8	6.3	5.3	5.6	4.
13	---	---	---	---	---	9.5	5.7	8.2	6.3	5.2	6.0	5.
14	---	---	---	---	---	9.3	5.7	8.8	6.1	4.9	6.0	5.
15	---	---	---	---	---	9.0	6.5	8.9	6.2	4.7	5.8	5.
16	---	---	---	---	---	9.5	6.3	8.6	7.2	4.5	5.6	6.
17	---	---	---	---	---	9.2	6.3	8.4	7.1	4.6	5.5	7.
18	---	---	---	---	---	9.2	5.9	7.6	6.3	5.1	6.1	7.
19	---	---	---	---	9.4	10.2	5.6	7.7	5.8	5.4	6.3	7.
20	---	---	---	---	9.2	9.9	5.2	8.3	5.9	5.4	6.4	7.
21	---	---	---	---	8.7	9.0	5.9	7.8	5.6	4.9	6.2	6.
22	---	---	---	---	9.1	9.0	6.9	7.6	5.5	4.7	6.1	6.
23	---	---	---	---	9.5	9.5	7.1	7.4	5.3	4.8	5.9	5.
24	---	---	---	---	9.3	9.6	7.2	8.3	5.2	4.8	5.9	5.
25	---	---	---	---	9.0	9.0	6.8	8.4	5.4	4.7	5.5	5.
26	---	---	---	---	8.4	8.9	6.7	8.7	5.6	4.5	5.5	5.
27	---	---	---	---	8.0	8.7	6.4	8.3	5.7	4.3	5.0	4.
28	---	---	---	---	8.7	8.2	6.0	7.9	5.9	4.4	6.4	4.
29	---	---	---	---	---	8.4	6.1	8.2	5.8	4.5	6.4	5.
30	---	---	---	---	---	8.6	6.4	8.4	5.5	4.5	6.0	5.
31	---	---	---	---	---	8.3	---	---	---	4.8	5.5	---
MEAN	---	---	---	---	8.9	9.6	6.9	7.8	6.0	5.2	5.7	5.

Table 8.--Mean daily dissolved oxygen, in milligrams per liter, of water at selected sites--Continued

SITE 6 FOURCHE MALINE NEAR WILBURTON												
WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP
1	---	---	8.5	11.1	13.1	---	---	---	---	---	---	5.
2	---	---	8.2	10.8	13.1	---	---	---	---	---	---	4.
3	---	---	8.2	11.1	13.2	---	---	---	---	---	---	3.
4	---	---	9.3	11.0	13.0	---	---	---	---	---	---	3.
5	---	---	10.0	10.9	12.7	---	---	---	---	---	---	3.
6	---	---	10.3	10.9	12.5	---	---	---	---	---	---	3.
7	---	---	11.0	10.9	12.3	---	---	---	---	---	---	4.
8	---	---	---	11.1	11.9	---	---	---	---	---	---	4.
9	---	---	---	11.5	12.3	---	---	---	---	---	---	4.
10	---	---	---	11.6	12.5	---	---	---	---	---	---	4.
11	---	---	---	11.5	12.1	10.5	---	---	---	---	---	5.
12	---	---	---	11.7	11.6	10.0	---	---	---	---	---	5.
13	---	---	---	11.9	11.6	9.5	---	---	---	---	---	5.
14	---	---	---	12.3	10.9	9.7	---	---	---	---	4.7	5.
15	---	---	11.4	12.7	---	9.5	---	---	---	---	5.8	5.
16	---	7.2	11.0	12.7	---	9.4	---	---	---	---	6.3	5.
17	---	7.8	10.7	12.6	---	9.3	---	---	---	---	5.1	6.
18	---	5.6	10.6	11.5	---	8.6	---	---	---	---	4.3	5.
19	---	7.6	9.6	---	---	8.2	---	---	---	---	4.0	5.
20	---	7.5	8.5	---	---	---	---	---	---	---	4.6	4.
21	---	7.4	7.9	---	---	---	---	---	---	---	---	4.
22	---	7.7	8.9	---	---	---	---	---	---	---	3.8	4.
23	---	7.3	9.8	12.1	---	---	---	---	---	---	3.9	4.
24	---	7.0	9.8	12.6	---	---	---	---	---	---	4.1	4.
25	---	6.9	9.9	12.5	---	---	---	---	---	---	4.2	4.
26	---	7.0	9.9	12.4	---	---	---	---	---	---	4.1	3.
27	---	7.3	10.0	12.5	---	---	---	---	---	---	5.4	3.
28	---	8.2	10.2	12.5	---	---	---	---	---	---	5.3	3.
29	---	9.0	9.8	12.1	---	---	---	---	---	---	5.2	3.
30	---	8.9	9.5	11.1	---	---	---	---	---	---	5.6	3.
31	---	---	10.5	13.0	---	---	---	---	---	---	5.2	---
MEAN	---	7.5	9.7	11.8	12.3	9.4	---	---	---	---	4.8	4.

Table 8.--Mean daily dissolved oxygen, in milligrams per liter, of water at selected sites--Continued

SITE 6 FOURCHE MALINE NEAR WILBURTON

WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT
1	2.9	6.6	11.6	11.1	13.2	11.3	---	8.4	---	---	---	---
2	2.6	7.0	11.7	11.0	13.2	12.1	---	8.7	---	---	---	---
3	2.7	7.5	11.9	10.8	13.1	12.1	8.7	9.5	---	---	---	---
4	3.3	7.8	11.8	10.9	13.4	11.0	8.1	9.2	---	---	---	---
5	3.5	7.9	11.4	10.9	13.1	10.6	8.2	8.8	---	---	---	---
6	3.4	8.0	11.1	10.7	12.6	10.6	8.1	8.4	---	---	---	---
7	3.5	8.1	11.1	10.7	12.6	9.4	7.5	8.0	---	---	---	---
8	3.9	7.7	11.0	11.1	13.0	9.0	7.7	8.1	---	---	---	---
9	4.1	7.5	11.0	11.1	12.7	8.4	7.7	8.1	---	---	---	---
10	4.2	8.2	10.7	10.8	13.1	---	7.5	7.8	---	---	---	---
11	4.3	8.8	9.7	10.4	13.2	---	7.0	7.4	---	---	---	---
12	3.5	8.9	9.6	10.6	13.2	---	7.2	7.0	---	---	---	---
13	3.1	8.9	10.5	10.6	13.0	---	7.4	6.6	---	---	---	---
14	2.7	9.1	10.6	10.5	12.5	---	8.0	6.6	---	---	---	---
15	2.4	9.1	10.8	9.8	12.1	---	8.0	---	---	---	---	---
16	1.9	9.0	11.0	9.4	12.6	---	6.9	---	---	---	---	---
17	1.5	8.9	11.6	9.9	13.2	---	6.3	---	---	---	---	---
18	1.4	7.9	11.6	10.2	13.1	---	6.9	---	---	---	---	---
19	1.4	6.5	11.5	10.2	11.8	---	7.3	---	---	---	---	---
20	1.2	5.5	11.2	9.6	11.0	8.6	7.1	---	---	---	---	---
21	.9	6.3	10.7	9.8	10.3	8.6	6.5	---	---	---	---	---
22	.8	6.5	10.0	10.1	10.3	8.6	6.1	---	---	---	---	---
23	.8	7.4	9.3	10.5	10.3	7.7	5.4	---	---	---	---	---
24	.7	8.3	10.0	10.6	10.5	8.6	4.7	---	---	---	---	---
25	.6	9.1	10.7	10.5	10.9	9.4	4.2	---	---	---	---	---
26	.7	9.6	10.6	10.8	11.0	9.4	6.7	---	---	---	---	---
27	.9	9.8	10.6	11.2	11.0	---	7.7	---	---	---	---	---
28	1.1	10.5	10.6	11.7	10.6	---	7.9	---	---	---	---	---
29	1.3	10.9	10.6	12.0	10.3	---	7.8	---	---	---	---	---
30	2.6	11.3	10.5	12.2	---	---	7.7	---	---	---	---	---
31	5.8	---	10.9	12.8	---	---	---	---	---	---	---	---
MEAN	2.4	8.3	10.8	10.7	12.1	9.7	7.2	8.0	---	---	---	---

Table 8.--Mean daily dissolved oxygen, in milligrams per liter, of water at selected sites--Continued

SITE 7 RED OAK CREEK NEAR RED OAK												
WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT
1	---	---	8.4	13.6	10.0	11.0	9.9	5.0	---	---	---	4.3
2	---	---	7.8	13.0	11.3	11.5	10.2	5.0	---	---	---	3.8
3	---	---	7.3	12.4	12.1	11.6	9.6	4.9	---	---	---	3.0
4	---	---	6.9	11.9	12.5	9.9	9.7	4.1	---	---	---	3.3
5	---	---	6.4	11.7	12.4	9.2	10.2	4.8	---	---	---	---
6	---	---	---	11.1	12.4	9.9	10.9	5.7	---	---	---	---
7	---	---	---	10.9	12.1	11.2	10.9	5.9	---	---	---	---
8	---	---	---	10.7	11.9	12.7	9.7	5.9	---	---	---	---
9	---	---	---	10.7	11.9	13.2	8.7	7.5	---	---	---	---
10	---	---	---	10.6	11.5	13.4	8.1	---	---	---	---	---
11	---	---	---	10.4	---	13.5	7.1	7.4	---	---	---	---
12	---	---	---	10.3	---	13.3	6.7	7.7	---	---	---	---
13	---	---	---	10.1	---	---	6.7	7.3	---	---	---	---
14	---	---	---	10.1	---	---	6.1	7.1	---	---	---	6.6
15	---	---	---	9.7	---	---	5.5	7.8	---	---	---	5.6
16	---	---	---	9.1	---	---	5.9	7.6	---	---	---	4.7
17	---	9.9	---	9.1	---	---	6.6	7.6	---	---	---	4.9
18	---	9.3	---	9.0	---	---	7.0	6.7	---	---	---	5.3
19	---	9.0	---	8.8	---	---	6.5	6.3	---	---	5.9	5.5
20	---	9.0	---	9.0	---	---	6.0	7.6	---	---	5.3	5.4
21	---	8.7	---	9.3	---	---	5.0	8.1	---	---	5.3	5.6
22	---	8.4	---	10.0	---	---	4.9	8.1	---	---	5.3	5.8
23	---	8.2	---	10.0	11.0	10.5	7.9	7.6	---	---	5.3	5.8
24	---	7.9	---	9.9	11.1	10.0	7.8	7.5	---	---	5.8	---
25	---	7.5	---	10.0	11.8	9.8	6.9	7.1	5.5	---	---	---
26	---	7.1	---	9.9	12.1	9.7	6.3	7.3	5.3	---	5.6	---
27	---	7.3	---	9.5	11.8	9.7	5.7	7.2	5.1	---	6.1	---
28	---	7.8	---	9.3	10.6	9.1	5.2	7.0	---	---	5.7	---
29	---	8.3	---	9.5	---	9.4	4.7	---	---	---	4.8	---
30	---	8.6	---	9.4	---	9.6	4.8	---	---	---	4.4	---
31	---	---	14.1	9.2	---	9.4	---	---	---	---	4.5	---
MEAN	---	8.3	8.5	10.3	11.7	10.8	7.4	6.7	5.3	---	5.4	5.0

Table 9.--Biological data of water at selected sites

[ML, milliliter; #, dominant organism (equal to greater than 15%); *, observed organism (less than 0.5 %)]

SITE 1 TI CREEK NEAR BLANCO

DATE TIME	DEC 2, 1980 1230	FEB 2, 1981 1345	MAY 1, 1981 1230	JULY 1, 1981 1445		
TOTAL CELLS/ML	610	77	4200	17000		
DIVERSITY: DIVISION	1.0	0.7	1.7	1.3		
..CLASS	1.0	0.7	1.7	1.3		
..ORDER	2.0	1.9	2.4	2.5		
....FAMILY	2.4	1.9	2.5	2.9		
.....GENUS	2.4	1.9	2.6	3.0		
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
BACILLARIOPHYTA (DIATOMS)						
..BACILLARIOPHYCEAE	--	-				
....ACHNANTHALES			66	2	840	5
.....ACHNANTHACEAE						
.....ACHNANTHES						
....BACILLARIALES	180#	30	26#	33	110	3
.....NITZSCHIA					1700	10
.....NITZSCHIA						
....EUPODISCALES						
.....COSCINODISCACEAE						
.....CYCLOTELLA	--	-	22	1	700	4
....FRAGILARIALES						
.....FRAGILARIA						
.....FRAGILARIA	--	-	--	-	280	2
.....SYNEDRA	13	2	--	-	--	-
....NAVICULALES						
.....CYMBELLACEAE	26	4	--	-	840	5
.....CYMBELLA						
....GOMPHONEMACEAE	250#	40	26#	33	700	4
.....GOMPHONEMA						
....NAVICULACEAE						
.....CALONEIS	--	-	--	-	140	1
.....FRUSTULIA	--	-	--	-	140	1
.....NAVICULA	26	4	--	-	1300	7
....SURIPELLALES						
.....SURIPELLACEAE						
.....SURIPELLA	--	-	13#	17	--	-

CHLOROPHYTA (GREEN ALGAE)									
•CHLOROPHYCEAE									
••CHLOROCOCCALES									
•••OOCYSTACEAE									
••••ANKISTRODESMUS									
••••KIRCHNERIELLA									
••••SELENASTRUM									
••••SCENEDESMACEAE									
••••SCENEDESMUS	26	4							
••••VOLVOCALES									
••••CHLAMYDOMONADACEAE									
••••CHLAMYDOMONAS	39	6	13#	17			44	1	420 2
CRYPTOPHYTA (CRYPTOMONADS)									
•CRYPTOPHYCEAE									
••CRYPTOMONADALES									
•••CRYPTOMONADACEAE									
••••CRYPTOMONAS	13	2					330	8	-- --
CYANOPHYTA (BLUE-GREEN ALGAE)									
•CYANOPHYCEAE									
••CHROOCOCCALES									
•••CHROOCOCCACEAE									
••••ANACYSTIS									
••••NOSTOCALES	--						1800#	44	-- --
••••HAMMATOIDEACEAE									
••••RAPHIDIOPSIS	--						--	--	1600 10
••••NOSTOCACEAE									
••••ANABAENA	--						--	--	560 3
••••OSCILLATORIALES									
••••OSCILLATORIACEAE									
••••OSCILLATORIA	--						790#	19	7000# 42
EUGLENOPHYTA (EUGLENOIDS)									
•EUGLENOPHYCEAE									
••EUGLENALES									
•••EUGLENACEAE									
••••EUGLENA	--						180	4	-- --
••••TRACHELOMONAS	39	6					150	4	-- --
PYRRHOPHYTA (FIRE ALGAE)									
•DINOPHYCEAE									
••DINOKONTAE									
•••GLENODINIACEAE									
••••GLENODINIUM	--						44	1	-- --

Table 9.--Biological data of water at selected sites--Continued

SITE 2 BRUSHY CREEK NEAR HAILEYWILLE

DATE TIME	FEB 3, 1981 1508	MAY 1, 1981 1105	AUG 5, 19 1400	
TOTAL CELLS/ML	120	2800	5200	
DIVERSITY: DIVISION	1.7	1.8	1.6	
..CLASS	1.7	1.8	1.6	
..ORDER	2.3	2.3	2.2	
...FAMILY	2.3	2.8	3.1	
....GENUS	2.3	3.7	3.8	
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
BACILLARIOPHYTA (DIATOMS)				
..BACILLARIOPHYCEAE				
...BACILLARIALES				
....NITZSCHIA	13	11	94	3
....EUPODISCALES				
....COSCINODISCAEAE				
....CYCLOTELLA	--	-	94	3
....MELOSIRA	--	-	63	2
...FRAGILARIALES				
....FRAGILARIAEAE	--	-	16	1
....SYNEDRA				
...NAVICULALES				
....CYMBELLACEAE				
....CYMBELLA	13	11	--	-
...NAVICULACEAE				
....GYROSIGMA	--	-	--	*
....NAVICULA	--	-	31	1
CHLOROPHYTA (GREEN ALGAE)				
..CHLOROPHYCEAE				
...CHLOROCOCCALES				
....CHLOROCOCCACEAE				
....SCHROEDERIA	--	-	--	-
....COCCOMYXACEAE				
....FLAKATOTHRIX				
....DICTYOSPHAERIACEAE				
....DICTYOSPHAERIUM	--	-	280	10
...MICRACTINIACEAE				
....MICRACTINIUM	--	-	--	-
			130	2
			32	1
			320	6
			260	5

....OOCYSTACEAE	52#	44	79	3	32	1
....ANKISTRODESMIUS	--	-	--	-	320	6
....KIRCHNERIELLA	--	-	--	-	32	1
....OOCYSTIS	--	-	--	-	96	2
....SELENASTRUM	--	-	--	-	260	5
....SCENEDESMACEAE	--	-	--	-	--	-
....ACTINASTRUM	--	-	--	-	80	2
....CRUCIGENIA	--	-	380	13	350	7
....GLOEOACTINIUM	--	-	--	-	--	-
....SCENEDESMUS	--	-	130	4	32	1
....TETRASTRUM	--	-	310	11	--	--
....VOLVOCALES	--	-	--	-	--	--
....CHLAMYDOMONADACEAE	13	11	250	9	96	2
....CHLAMYDOMONAS	--	-	--	-	770	15
....VOLVOCEAE	--	-	--	-	--	--
....PANDORINA	--	-	--	-	--	--
....ZYGNEMATALES	--	-	--	-	--	--
....DESMIDIACEAE	--	-	--	-	--	--
....COSMARIUM	--	-	--	-	32	1
CYANOPHYTA (BLUE-GREEN ALGAE)						
..CYANOPHYCEAE	13	11	250	9	510	10
...CHROOCOCCALES	--	-	250	9	940#	18
....CHROOCOCCACEAE	--	-	--	-	--	--
....AGMENELLUM	--	-	--	-	--	--
....ANACYSTIS	--	-	--	-	--	--
EUGLENOPHYTA (EUGLENOIDS)						
..EUGLENOPHYCEAE	13	11	330	12	400	8
...EUGLENALES	--	-	47	2	--	--
....EUGLENACEAE	--	-	190	7	340	6
....EUGLENA	--	-	--	-	--	--
....PHACUS	--	-	--	-	--	--
....TRACHELOMONAS	--	-	--	-	--	--
PYRRHOPHYTA (FIRE ALGAE)						
..DINOPHYCEAE	13	11	31	1	--	--
...DINOKONTAE	--	-	--	-	32	1
....GLENODINIACEAE	--	-	--	-	--	--
....GLENODINIUM	--	-	--	-	--	--
....PERIDINIACEAE	--	-	--	-	--	--
....PERIDINIUM	--	-	--	-	--	--

Table 9.--Biological data of water at selected sites--Continued

SITE 3 PEACEABLE CREEK NEAR HAILEYVILLE

DATE TIME	DEC 1700	3, 1980	FEB 1315	4, 1981	MAY 1320	7, 1981	AUG 1315	6, 1981
TOTAL CELLS/ML	120		490	2700	1800	19000		
DIVERSITY: DIVISION	1.2		1.8	1.7	1.4	0.6		
..CLASS	1.2		1.8	1.7	1.4	0.6		
..ORDER	1.9		2.8	2.1	2.4	0.8		
....FAMILY	1.9		2.8	2.2	3.1	0.8		
....GENUS	1.9		2.8	2.8	3.2	0.9		
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
BACILLARIOPHYTA (DIATOMS)								
..BACILLARIOPHYCEAE								
....ACHNANTHALES								
.....ACHNANTHACEAE					28	2		
.....ACHNANTHES								
..BACILLARIALES								
....NITZSCHIA					14	1		
.....NITZSCHIA					42	2		
....EUPODISCALES								
.....EUPODISCAEAE								
....CYCLOTELLA								
.....CYCLOTELLA								
....MELOSIRA								
.....MELOSIRA								
....STEPHANODISCUS								
.....STEPHANODISCUS								
....FRAGILARIALES								
.....FRAGILARIAEAE								
....SYNEDRA								
.....SYNEDRA								
....NAVICULALES								
.....NAVICULACEAE								
....CYMBELLA								
.....CYMBELLA								
....NAVICULACEAE								
.....NAVICULACEAE								
....STAURONEIS								
.....STAURONEIS								
....SURIPELLALES								
.....SURIPELLACEAE								
....SURIPELLA								
.....SURIPELLA								

CHLOROPHYTA (GREEN ALGAE)

CHLOROPHYCEAE	--	-	--	-	-	42	2	--	-
CHLOROCOCCALES	--	-	26	1	42	2	2	--	-
CHLOROCOCCACEAE	13	11	52	2	--	-	-	--	-
SCHROEDERIA	--	-	--	-	42	2	2	--	-
OOCYSTACEAE	--	-	--	-	42	2	2	--	-
ANKISTRODESMUS	--	-	--	-	--	-	-	--	-
SELENASTRUM	--	-	--	-	42	2	2	--	-
SCENEDESMACEAE	--	-	--	-	--	-	-	--	-
CRUCIGENIA	--	-	52	2	170	9	9	--	-
GLOEOACTINIUM	--	-	--	-	--	-	-	--	-
SCENEDESMUS	--	-	--	-	--	-	-	--	-
VOLVOCALES	--	-	--	-	--	-	-	--	-
CHLAMYDOMONADACEAE	13	11	130	5	14	1	1	--	-
CHLAMYDOMONAS	--	-	--	-	--	-	-	--	-
VOLVOCAEAE	--	-	--	-	--	-	-	--	-
EUDORINA	--	-	--	-	--	-	-	--	-

CYANOPHYTA (BLUE-GREEN ALGAE)

CYANOPHYCEAE	13	11	160#	32	--	960#	35	--	230	1
CHROOCOCCALES	--	-	--	-	--	-	-	--	--	-
CHROOCOCCACEAE	--	-	--	-	--	-	-	--	--	-
AGMENELLUM	--	-	--	-	--	-	-	--	130	1
ANACYSTIS	--	-	--	-	--	-	-	--	--	-
COCCOCHLORIS	--	-	--	-	--	-	-	--	--	-
GOMPHOSPHAERIA	--	-	--	-	--	-	-	--	--	-
NOSTOCALES	--	-	--	-	--	-	-	--	--	-
HAMMATOIDEACEAE	--	-	--	-	--	-	-	--	--	-
RAPHIDIOPSIS	--	-	--	-	--	-	-	--	--	-
NOSTOCAEAE	--	-	--	-	--	-	-	--	--	-
APHANIZOMENON	--	-	--	-	--	-	-	--	--	-
OSCILLATORIALES	--	-	--	-	--	-	-	--	--	-
OSCILLATORIAEAE	--	-	--	-	--	-	-	--	--	-
ARTHROSPIRA	--	-	--	-	--	-	-	--	--	-
OSCILLATORIA	--	-	--	-	--	-	-	--	--	-
PHORMIDIUM	--	-	--	-	--	-	-	--	--	-

EUGLENOPHYTA (EUGLENIDS)

EUGLENOPHYCEAE	--	-	--	-	--	-	-	--	17000#	88
EUGLENALES	--	-	--	-	--	-	-	--	--	-
EUGLENACEAE	--	-	--	-	--	-	-	--	--	-
EUGLENA	--	-	430#	16	--	-	-	--	120	1
LEPOTINCLIS	--	-	--	-	--	-	-	--	--	-
PHACUS	--	-	210	8	--	-	-	--	270	1
TRACHELOMONAS	--	-	470#	17	39	8	14	1	720	4

PYRRHOPHYTA (FIRE ALGAE)

DINOPHYCEAE	--	-	--	-	--	-	-	--	--	-
DINOKONTAE	--	-	26	1	--	-	-	--	--	-
GLENODINIACEAE	--	-	--	-	--	-	-	--	--	-
GLENODINIUM	--	-	--	-	--	-	-	--	--	-

Table 9.--Biological data of water at selected sites--Continued

SITE 5 COAL CREEK NEAR SPIRO						
DATE TIME	DEC 12, 1980 1249	FEB 11, 1981 1455	MAY 20, 1981 1345	AUG 24, 1981 1420		
TOTAL CELLS/ML	400	65	78	14		
DIVERSITY: DIVISION	1.3	0.7	0.0	0.0		
..CLASS	1.3	0.7	0.0	0.0		
..ORDER	1.3	1.4	1.5	0.0		
...FAMILY	1.3	1.4	1.5	0.0		
....GENUS	1.3	1.4	1.5	0.0		
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
BACILLARIOPHYTA (DIATOMS)						
..BACILLARIOPHYCEAE	--	-			14#100	
...BACILLARIALES			26# 33			
....NITZSCHIA		39# 60				
...EUPODISCALES	--	-	39# 50			
....CYCLOTETRA						
...NAVICULALES						
....GOMPHONEMACEAE	14	3	--	-	--	-
...GOMPHONEMA						
....NAVICULACEAE	--	-	13# 20		--	-
....NAVICULA						
CHLOROPHYTA (GREEN ALGAE)						
..CHLOROPHYCEAE						
...VOLVOCALES						
....CHLAMYDOMONADACEAE						
....CHLAMYDOMONAS	83# 21		13# 20		--	-
CYANOPHYTA (BLUE-GREEN ALGAE)						
..CYANOPHYCEAE						
...OSCILLATORIALES						
....OSCILLATORIACEAE						
....OSCILLATORIA	280# 69		--	-	--	-
EUGLENOPHYTA (EUGLENIDS)						
..EUGLENOPHYCEAE						
...EUGLENES						
....EUGLENACEAE	28	7	--	-	--	-
....TRACHELOMONAS						

Table 9.--Biological data of water at selected sites--Continued

SITE 6 FOURCHE MALINE NEAR WILBURTON

DATE TIME	DEC 23, 1980 1630	FEB 12, 1981 1330	MAY 14, 1981 1510	AUG 11, 1981 1215		
TOTAL CELLS/ML	650	78	930	420		
DIVERSITY: DIVISION	1.9	1.0	1.7	2.0		
..CLASS	1.9	1.0	1.7	2.0		
..ORDER	2.2	1.9	2.2	2.1		
...FAMILY	2.3	1.9	2.2	2.5		
....GENUS	2.3	1.9	2.2	2.9		
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
BACILLARIOPHYTA (DIATOMS)						
..BACILLARIOPHYCEAE						
...ACHNANTHALES						
....ACHNANTHACEAE	14	2	--	-	--	-
....ACHNANTHES						
..BACILLARIALES						
...NITZSCHIAEAE	--	-	--	-	14	3
....NITZSCHIA						
..EUPODISCALES						
...COSCINODISCAEAE	14	2	--	-	14	3
....CYCLOTELLA	--	-	--	-	14	3
....MELOSIRA						
..FRAGILARIALES						
...FRAGILARIAEAE						
....FRAGILARIA	--	-	13	1	--	-
....SYNEDRA	28	4	--	-	--	-
...NAVICULALES			26#	33		
....NAVICULACEAE						
....NAVICULA	--	-	13#	17	--	-
CHLOROPHYTA (GREEN ALGAE)						
..CHLOROPHYCEAE						
...CHLOROCOCCALES						
....MICRACTINIACEAE						
....MICRACTINIUM	--	-	--	-	280#	31
....OOCYSTACEAE						
...ANKISTRODESMUS	28	4	26#	33	--	-
...SCENEDESMACEAE						
....CRUCIGENIA	55	9	--	-	--	-
....VOLVOCALES						
...CHLAMYDOMONADACEAE						
....CHLAMYDOMONAS	41	6	13#	17	26	3
					--	-

Table 9.--Biological data of water at selected sites---Continued

SITE 7 RED OAK CREEK NEAR RED OAK									
DATE TIME	NOV 21, 1980 1244	DEC 4, 1980 1400	FEB 10, 1981 1300	MAY 22, 1981 1550	AUG 19, 1981 1330				
TOTAL CELLS/ML	17000	580	1100	9700	1700				
DIVERSITY: DIVISION	1.0	2.1	1.3	1.0	1.1				
..CLASS	1.0	2.1	1.3	1.0	1.1				
..ORDER	1.6	2.3	2.7	1.1	1.1				
...FAMILY	2.0	2.3	2.8	2.0	1.1				
....GENUS	2.0	2.4	2.8	2.2	1.1				
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML
BACILLARIOPHYTA (DIATOMS)									
..BACILLARIOPHYCEAE									
...BACILLARIALES									
....NITZSCHACEAE									
.....HANTZSCHIA	* 0	-- 39	-- 200#	-- 76	--				
.....NITZSCHIA	* 0								
...EUPODIALES									
....COSCINODISCACEAE									
...CYCLOTELLA	--	90# 16	56 5	76 1	--				
...FRAGILARIALES									
....FRAGILARIACEAE	--	--	56 5	--	--				
.....SYNEDRA									
...NAVICULALES									
....NAVICULACEAE									
...NAVICULA	--	--	140 13	* 0	370# 21				
...SURIPELLALES									
....SURIPELLACEAE	--	--	28 2	--	--				
.....SURIPELLA									
CHLOROPHYTA (GREEN ALGAE)									
..CHLOROPHYCEAE									
...CHLOROCOCCALES									
....CHLOROCOCCACEAE									
.....POLYEDRIOPSIS				* 0	--				
...DICTYOSPHAERIACEAE									
....DICTYOSPHAERIUM	7000# 40	--	230# 20	100 1	--				
.....WESTELLA	--	--		--	--				
...MICRACTINIACEAE									
....GOLENKINIA	300 2	--	--	--	--				
.....MICRACTINIUM	--	--	--	5200# 54	--				

Table 9.--Biological data of water at selected sites--Continued

SITE 8 CASTON CREEK AT WISTER									
DATE TIME	NOV 17, 1980 1600	FEB 17, 1981 1610	MAY 18, 1981 1640	AUG 17, 1981 1420					
TOTAL CELLS/ML	450	400	180	3000					
DIVERSITY: DIVISION	1.9	1.3	1.4	1.1					
..CLASS	1.9	1.3	1.4	1.1					
..ORDER	2.7	2.0	2.1	1.3					
....FAMILY	3.0	2.1	2.5	2.7					
....GENUS	3.0	2.1	2.7	2.9					
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML
BACILLARIOPHYTA (DIATOMS)									
..BACILLARIOPHYCEAE									
....BACILLARIALES									
.....NITZSCHIA									
.....EUPODISCALES									
....COSCINODISCACEAE									
.....CYCLOTELLA									
.....MELOSIRA									
....FRAGILARIALES									
....FRAGILARIACEAE									
.....MERIDION									
.....SYNEDRA									
....NAVICULALES									
.....CYMBELLACEAE									
.....CYMBELLA									
....GOMPHONEMACEAE									
....GOMPHONEMA									
....NAVICULACEAE									
.....NAVICULA									
CHLOROPHYTA (GREEN ALGAE)									
..CHLOROPHYCEAE									
....CHLOROCOCCALES									
.....CHLOROCOCCACEAE									
.....TETRAEDRON									
....DICTYOSPHAERIACEAE									
....DICTYOSPHAERIUM									
....MICRACTINIACEAE									
.....MICRACTINIUM									

....OOCYSTACEAE	39	9	--	--	13	7	--	3
....ANKISTRODESMUS	--	-	--	-	--	-	82	3
....KIRCHNERIELLA	--	-	--	-	--	-	810#	27
....PALMELLACEAE	--	-	--	-	--	-	330	11
....SPHAEROCYSTIS	130#	29	--	-	65#	36	330	11
....SCENEDESMACEAE	--	-	--	-	--	-	330	11
....SCENEDESMUS	--	-	--	-	--	-		
....TETRASTRUM	13	3	26	6	13	7	--	-
....VOLVOCALES								
....CHLAMYDOMONADACEAE								
....CHLAMYDOMONAS								
....CHRYSOPHYTA								
....CHRYSOPHYCEAE								
....OCHROMONADALES								
....SYNURACEAE	26	6	--	-	--	-	--	-
....SYNURA								
CRYPTOPHYTA (CRYPTOMONADS)								
..CRYPTOPHYCEAE								
..CRYPTOMONADALES								
....CRYPTOMONADACEAE	26	6	--	-	--	-	--	-
....CRYPTOMONAS								
CYANOPHYTA (BLUE-GREEN ALGAE)								
..CYANOPHYCEAE								
....CHROOCOCCALES								
....CHROOCOCCACEAE	52	11	210#	52	26	14	--	-
....ANACYSTIS								
....OSCILLATORIALES								
....OSCILLATORIACEAE	--	-	--	-	--	-	470#	15
....OSCILLATORIA								

Table 9.--Biological data of water at selected sites--Continued

SITE 9 MORRIS CREEK AT HOWE

DATE TIME	NOV 21, 1980 1535	FEB 18, 1981 1300	MAY 18, 1981 1510	AUG 17, 1981 1615
TOTAL CELLS/ML	26	26	90	300
DIVERSITY: DIVISION	0.0	0.0	0.9	2.1
..CLASS	0.0	0.0	0.9	2.1
..ORDER	0.0	1.0	1.6	2.4
...FAMILY	0.0	1.0	1.8	2.4
....GENUS	0.0	1.0	2.2	2.4
ORGANISM	CELLS /ML	CELLS /ML	CELLS /ML	CELLS /ML
BACILLARIOPHYTA (DIATOMS)				
..BACILLARIOPHYCEAE				
...ACHNANTHALES				
....ACHNANTHACEAE		13# 50		
....ACHNANTHES				
..BACILLARIALES				
...NITZSCHIA				
....NITZSCHIA				
...FRAGILARIALES				
....FRAGILARIA				
....FRAGILARIA				
....SYNEDRA				
....NAVICULALES				
...CYMBELLACEAE				
....CYMBELLA				
...NAVICULACEAE				
....NAVICULA				
CHLOROPHYTA (GREEN ALGAE)				
..CHLOROPHYCEAE				
...CHLOROCOCCALES				
....CHLOROCOCCACEAE				
....TETRAEDRON				
...SCENEDESMACEAE				
....SCENEDESMUS				

Table 9.--Biological data of water at selected sites--Continued

SITE 10 SUGARLOAF CREEK NEAR MONROE						
DATE TIME	NOV 19, 1980 1615	FEB 18, 1981 1100	MAY 20, 1981 1235	AUG 18, 1981 1405		
TOTAL CELLS/ML	77	26	26	0		
DIVERSITY: DIVISION	1.5	0.0	1.0	0.0		
..CLASS	1.5	0.0	1.0	0.0		
...ORDER	1.5	1.0	1.0	0.0		
...FAMILY	1.5	1.0	1.0	0.0		
....GENUS	1.5	1.0	1.0	0.0		
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
BACILLARIOPHYTA (DIATOMS)						
..BACILLARIOPHYCEAE						
...ACHNANTHALES						
....ACHNANTHACEAE						
...ACHNANTHES						
..BACILLARIALES						
...NITZSCHIACEAE						
....NITZSCHIA						
...NAVICULALES						
....GOMPHONEMACEAE						
...GOMPHONEMA						
...NAVICULACEAE						
....NAVICULA						
CHLOROPHYTA (GREEN ALGAE)						
..CHLOROPHYCEAE						
...CHLOROCOCCALES						
....OOCYSTACEAE						
...SELENASTRUM						
...VOLVOCALES						
...CHLAMYDOMONADACEAE						
....CHLAMYDOMONAS						
CYANOPHYTA (BLUE-GREEN ALGAE)						
..CYANOPHYCEAE						
...CHROOCOCCALES						
....CHROOCOCCACEAE						
....ANACYSTIS						

Table 9.--Biological data of water at selected sites---Continued

SITE 11 OWL CREEK NEAR MCCURTAIN									
DATE TIME	FEB 9 1981 1345	MAY 12 1981 1630	JUNE 6 1981 1615	AUG 13 1981 1555					
TOTAL CELLS/ML	52	170	1500	310					
DIVERSITY: DIVISION	1.0	1.7	1.2	1.7					
..CLASS	1.0	1.7	1.2	1.7					
..ORDER	1.0	2.4	2.2	1.8					
...FAMILY	1.0	2.4	2.4	1.8					
....GENUS	1.0	2.4	2.5	2.3					
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	
BACILLARIOPHYTA (DIATOMS)									
..BACILLARIOPHYCEAE									
...ACHNANTHALES									
....ACHNANTHACEAE									
...ACHNANTHES			28	2					
..BACILLARIALES									
...NITZSCHIAEAE									
....HANTZSCHIA									
...NITZSCHIA									
..FUPODISCALES									
...COSCINODISCACEAE									
....CYCLOTELLA									
..FRAGILARIALES									
...FRAGILARIAEAE									
....FRAGILARIA									
..NAVICULALES									
...CYMBELLACEAE									
....CYMBELLA									
...GOMPHONEMACEAE									
....GOMPHONEMA									
...NAVICULACEAE									
....AMPHIPLEURA									
...NAVICULA									
..SURIRELLALES									
...SURIRELLACEAE									
....SURIRELLA									

Table 9.--Biological data of water at selected sites--Continued

SITE 12 HOLI-TUSKA CREEK NEAR PANAMA

DATE
TIME MAY 19, 1981
1235

TOTAL CELLS/ML 130

DIVERSITY: DIVISION 1.7
..CLASS 1.7
..ORDER 2.3
...FAMILY 2.3
....GENUS 2.3

CELLS PER-
/ML CENT

ORGANISM

BACILLARIOPHYTA (DIATOMS)

..BACILLARIOPHYCEAE
..BACILLARIALES
...NITZSCHIA
...NITZSCHIA
...NITZSCHIA
...NAVICULALES
...NAVICULACEAE
...NAVICULA
26# 20
13 10

CHLOROPHYTA (GREEN ALGAE)

..CHLOROPHYCEAE
..CHLOROCOCCALES
...SCENEDESMACEAE
...SCENEDESMUS
...VOLVOCALES
...CHLAMYDOMONADACEAE
...CHLAMYDOMONAS
52# 40
13 10

CYANOPHYTA (BLUE-GREEN ALGAE)

..CYANOPHYCEAE
..CHROOCOCCALES
...CHROOCOCCACEAE
....ANACYSTIS
13 10

EUGLENOPHYTA (EUGLENIDS)

..EUGLENOPHYCEAE
..EUGLENALES
...EUGLENACEAE
....EUGLENA
13 10

Table 9.--Biological data of water at selected sites--Continued

SITE 13 MUDDY BOGGY CREEK AT ATOKA

DATE TIME	NOV 19, 1980 1445	FEB 6, 1981 1344	MAY 7, 1981 1300	JUNE 7, 1981 2025	AUG 12, 1981 1535	
TOTAL CELLS/ML	3400	1800	2700	510	4000	
DIVERSITY: DIVISION	2.0	2.0	1.8	1.1	1.8	
..CLASS	2.0	2.0	1.8	1.1	1.8	
..ORDER	2.5	2.4	2.1	1.5	2.7	
..FAMILY	2.7	2.5	2.2	1.5	3.0	
....GENUS	2.9	2.7	3.1	1.5	3.3	
ORGANISM	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT	CELLS /ML	PER- CENT
BACILLARIOPHYTA (DIATOMS)						
..BACILLARIOPHYCEAE						
....ACHNANTHALES	--	-	--	-	*	0
....ACHNANTHACEAE				14	3	
....ACHNANTHES						
..BACILLARIALES						
....NITZSCHIA	59	2	--	28	6	10
....NITZSCHIA						
....EUPODISCALES						
....COSCINODISCACEAE						
....CYCLOTELLA	59	2	15	1		10
....STEPHANODISCUS	20	1	--	--	400	--
....NAVICULALES						
....NAVICULACEAE	--	-	14	1	28	35
....NAVICULA				6	1	
CHLOROPHYTA (GREEN ALGAE)						
..CHLOROPHYCEAE						
....CHLOROCOCCALES					*	0
....CHLOROCOCCACEAE						
....TETRAEDRON	--	-	--	-		
....OOCYSTACEAE						
....ANKISTRODES MUS	330	10	200	11	160	4
....CHODATELLA	--	--	29	2	--	--
....KIRCHNERIELLA	59	2	--	--	110	3
....SELENASTRUM	--	--	15	1	--	--
....SCENEDESMACEAE						
....COELASTRUM	--	--	--	350#	69	--
....CRUCIGENIA	--	--	310	11	70	2
....SCENEDESMUS	79	2	--	--	350	9
....VOLVOCALES						
....CHLAMYDOMONADACEAE						
....CHLAMYDOMONAS	59	2	560#	31	14	180
						4

...VOLVOACEAE	--	-	--	-	--	-	140	3
...PANDORINA								
...ZYGEMATALES								
...DESMIDIACEAE							*	0
...COSMARIUM								
CHRYSOPHYTA								
...CHRYSOPHYCEAE								
...CHROMULINALES								
...CHRYSOCOCCACEAE								
...CHRYSOCOCCUS	710#	21	--	-	--	-	--	-
...CHROMONADALES								
...DINOBRYACEAE	59	2	--	-	--	-	--	-
...STENOCALYX								
...SYNURACEAE	690#	20	--	-	--	-	--	-
...SYNURA								
CRYPTOPHYTA (CRYPTOMONADS)								
...CRYPTOPHYCEAE								
...CRYPTOMONADALES								
...CRYPTOCHRYSIDACEAE			72	4	--	-	*	0
...CHROOMONAS								
...CRYPTOMONADACEAE			130	7	--	-	--	-
...CRYPTOMONAS								
CYANOPHYTA (BLUE-GREEN ALGAE)								
...CYANOPHYCEAE								
...CHROOCOCCALES								
...CHROOCOCCACEAE								
...AGMENELLUM					350	13	--	--
...ANACYSTIS	920#	27	--	29	650#	24	510	13
...NOSTOCALES								
...NOSTOCACEAE							1300#	33
...ANABAENA								
...OSCILLATORIALES								
...OSCILLATORACEAE								
...OSCILLATORIA								
EUGLENOPHYTA (EUGLENOIDS)								
...EUGLENOPHYCEAE								
...EUGLENALES								
...EUGLENACEAE								
...EUGLENA	39	1	58	3	200	7	160	4
...LEPOCINCLIS	--	--	--	--	120	5	35	1
...PHACUS	59	2	--	--	61	2	*	0
...TRACHELOMONAS	240	7	170	10	570#	21	110	3
PYRRHOPHYTA (FIRE ALGAE)								
...DINOPHYCEAE								
...DINOKONTAE								
...GLENODINIACEAE								
...GLENODINIUM	--	--	29	2	61	2	--	--